# Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

SINCE 1871

Volume 138
Number 23

December 2, 1940



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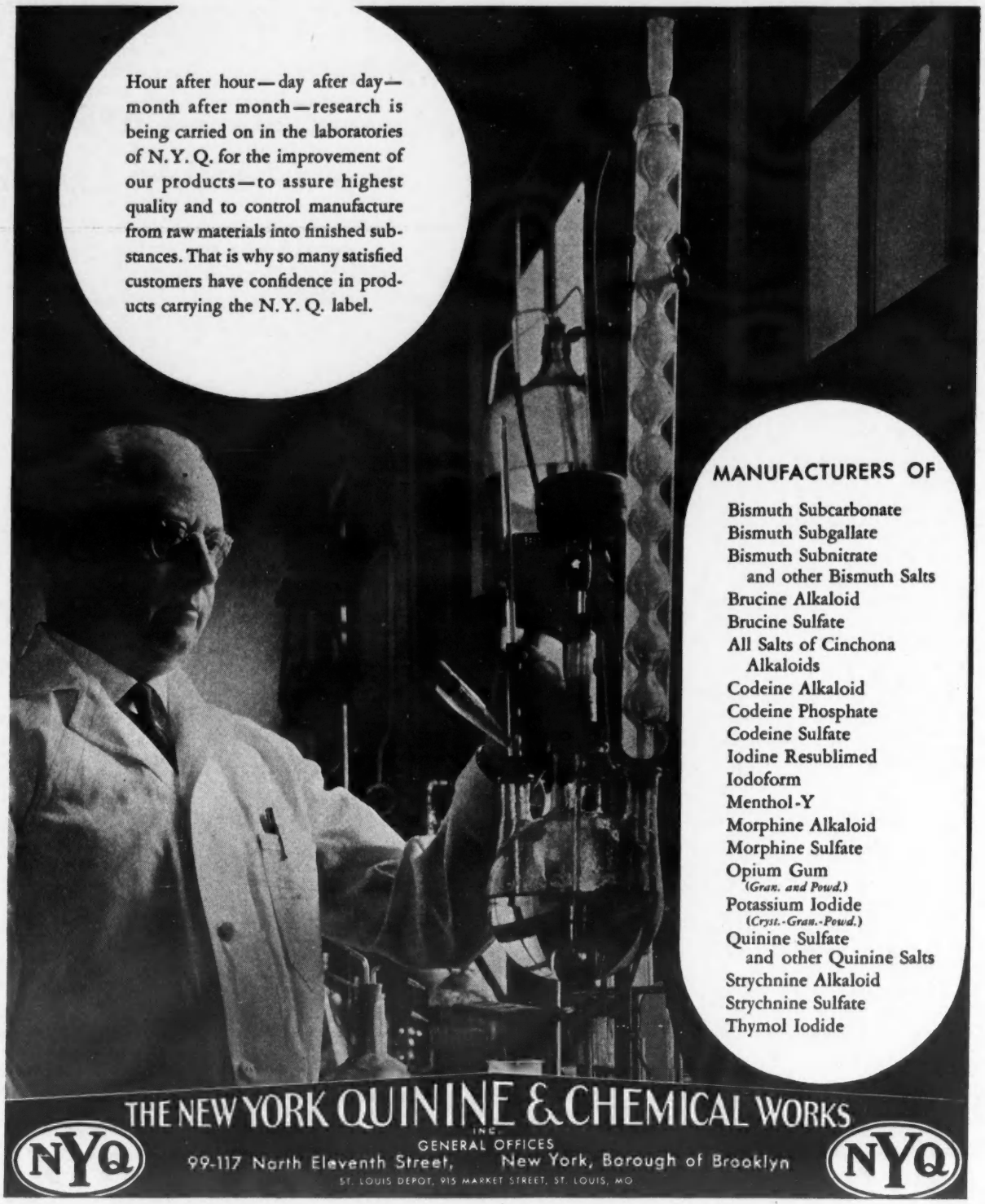
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# Oil, Paint and Drug Reporter

*Founded 1871 by William O. Allison*

*Member: Audit Bureau of Circulations*

**Volume 138** **December 2, 1940** **Number 23**

p. 3

## Bichromate Exports Assured of License

*OPD Washington Bureau*
*November 28, 1940*

A working arrangement to maintain export business in chrome chemicals without depleting the nation's stocks of metallurgical chrome ore has been agreed upon by leading bichromate manufacturers and the Administrator of Export Control.

Under this arrangement, American chemical manufacturers may import chemical-grade chrome ore with assurance that they will receive licenses from the Department of State Division of Controls for export of chrome chemicals made from this particular "earmarked" ore. A record must be kept of the ore and its disposition, and a formula has been agreed upon for determining the ratio between ore imports and chemical

*—Continued on page 41*

## S.O.C.M.A. to Meet In This City Dec. 12

The nineteenth annual meeting of the Synthetic Organic Chemical Manufacturers Association will be held in the Chemists' Club, this city, December 12. The program for the meeting calls for the board to meet at 4:30 p.m., with the executive business meeting at 5 p.m. A cocktail hour, starting at 5:30 p.m., will be followed by an informal dinner. Dr. Marston T. Bogert, of Columbia University, will be the speaker. Arrangements are in charge of C. A. Mace, secretary of the association, 260 West Broadway, this city.

## Davey Medal Won By Dr. H.C.Urey

*London, Nov. 26, 1940*

Dr. H. C. Urey, head of the chemistry department at Columbia University, today was awarded the Davey Medal of the Royal Society for his discovery of "heavy" hydrogen. The Colley Medal was given to Prof. Paul Langevin, of the College De France, Paris, for his pioneer work on the electron theory and magnetism. The Hughes Medal was awarded to Prof. A. H. Compton, of the University of Chicago, for work on bombardment of X-rays and particles known as the "Compton effect."

Dr. Urey received his doctorate in chemistry at the University of California in 1923 and the following year studied at Copenhagen as the American-Scandinavian Foundation fellow.

Dr. Urey returned to become associate in chemistry at Johns Hopkins University where he remained until he went to Columbia in 1929. He became a full professor in 1934, the year his scientific research won him the Nobel prize. His discovery of deuterium, which combined with oxygen makes heavy water, has expanded vastly the possibilities for research in the field of organic chemistry.

## N.Y. Trade Board Nominates Directors

The nominating committee of the New York Board of Trade has submitted a slate of twelve nominees for the 1941 class of directors. The election is scheduled for a luncheon meeting December 11 in the Hotel Astor.

The directorate nominees include the following representatives of chemical, drug, and related trades:—

William Callan, of the American Plastice Corporation; James C. Chilcott, of the Maltine Company; Francis J. McDonough, of New York Quinine & Chemical Works; and J. J. Toohy, of E. R. Squibb & Sons.

## DCAT Hears Tydings On Government Finance

Business men must take the leadership in insisting that the Federal government pay its peacetime running expenses out of current income in the interests of sound credit and a strong treasury, Senator Millard Tydings, of Maryland, told members and guests of the Drug, Chemical and Allied Trades Section of the New York Board of Trade at its luncheon meeting here November 28. Stating that the cost of the defense program would have to be scattered over a long period of time, because it would be too much of a burden to pay all at once, Senator Tydings urged that the American people have the courage, sense, and will to pay from current income all the Federal government's regular expenses.

The senator called attention to the fact that the country had gone into the "red" approximately twenty-eight billion dollars during the past ten years and that the government's current income is between five billion and six billion dollars while its expendi-

*—Continued on page 56*

## Clough Tells Defense Role of Drug Industry

Physicians, pharmacists, pharmaceutical manufacturers, and chemists constitute a definite and formidable line of defense in the present program to promote the strength of the nation. said S. DeWitt Clough, president of Abbott Laboratories, Inc., and president of the American Drug Manufacturers Association, in a symposium on "Industry and National Defense" radio broadcast from this city November 27.

In the prime necessity of maintaining the high standard of national health. Mr. Clough said, the drug industry is ready and active. He elucidated:—

The vast resources of American chemistry and research, as well as the facilities of manufacturers of medicinal products, bandages and dressings, and hospital and dental supplies, have been mobilized and are now being coordinated and synchronized with the army and navy military training plans. More than one year ago there was organized the Drugs Resources Advisory Committee,

*—Continued on page 56*

# Manufacturers to Discuss Defense Program Aspects

National defense relations to business and the role of business in the defense program will be the major theme of the forty-fifth annual Congress of American Industry which will be held under the auspices of the National Association of Manufacturers, December 11 to 13, in the Waldorf-Astoria hotel, this city. The scope of the discussions will comprise five elemental aspects of defense:—

Need for total preparedness.
Production aspects.
Economic aspects.
Intellectual and spiritual defenses.
Postwar readjustment.

The theme will be presented to the congress by H. W. Prentis, jr., president of the Armstrong Cork Company, as president of the National Association of Manufacturers, at luncheon December 11. The background will be painted in by Gen. Hugh Johnson and other speakers, who will analyze the "scene" in this country, in Latin America, and in the world.

### Elemental Discussions

The five elemental aspects will be taken up in the above order from that time forward. The chief contributions to their consideration will be as follows:—

"The Problem of the Supply of Labor," Clifford Stillwell, vice-president, Warner & Swasey Company, Cleveland.

"Conciliation," John R. Steelman, director of conciliation, United States Department of Labor.

"The Problem of Federal Labor Laws," W. H. Angle, president Stromberg-Carlson Company (chairman of N.A.M. committee on employment relations).

"Sabotage and the Fifth Column," J. Edgar Hoover, director, Federal Bureau of Investigation.

"The Lesson of France," Andre Maurois, who was an official observer with the British Expeditionary Force.

"Economic Pitfalls of Totalitarianism," Carl Snyder, New York Federal Reserve Bank.

"Internal Prosperity Essential for External Defense," Philip D. Reed, chairman, General Electric Company.

"Financing the Defense Program," John W. Haines, former Under-Secretary of the Treasury.

"The Process of Creating Wealth," F. C. Crawford, president, Thompson Products, Inc.

"The Religious Foundation of True Americanism," James W. Fifield, First

*—Continued on page 68*

## N.Y. Drug-Chemical Section Elects Toohy

The executive committee of the Drug, Chemical and Allied Trades Section of the New York Board of Trade elected November 19 organized

**John J. Toohy**
**D.C.A.T. Chairman for 1941**

at a luncheon meeting November 26 and elected the following of its members as officers of the section:—

Chairman, John J. Toohy, of E. R. Squibb & Sons.

*—Continued on page 56*

# Chemical Employment in N.Y. Gained Consistently for 3 Years

*Albany, Nov. 27, 1940*

Of the eleven industrial groups for which indexes of employment and payrolls are compiled by the New York State Department of Labor, the chemical group was the lone division showing higher weekly earnings in the three years from 1937-39 than in the base period, 1925-27, according to a study, "Trend of Employment in New York State from 1914 to 1939," just issued by the department.

The varied chemical products made by the New York State factories are grouped by the State Department of Labor into four divisions. The drugs and industrial chemicals division includes factories engaged in the general chemical business and those making specific products such as acids, disinfectants, proprietary medicines, calcium carbide, oxygen, soda and its by-products and dyestuffs.

In the paints and colors division are tabulated the reports of manufacturers of paints, varnishes, enamels and lacquers, kalsomine, white lead, shellac, carbon paper, art materials, printing inks and shoe polishes.

The oil products division covers the preparation of petroleum, coke and coaltar, soaps, cosmetics and perfumes, candles and linseed oil.

The principal products of the factories in the photographic and miscellaneous chemicals division are photographic chemicals and films, matches, fireworks, fertilizers and glue.

### Chemical Wage $31.20

In 1939 the payroll index of the chemical group at 117.8 and the average earnings index at 105.8 were at their peak levels for the entire twenty-six-year period from 1914 to 1939. The average employed chemical workers in 1939 earned $31.20 per week, about $4 more per week than the average factory worker in the State. The trends of both payrolls and average earnings in this group have been upward from 1914 to 1939. The rise in the payroll trend line amounted to 1.4 points in the index a year.

The employment index at 111.3 in 1939 was exceeded only by the figures for the period from 1916 through 1920. This period of five years was one of greatly expanding demand for chemi-

*—Continued on page 64*

## Sabotage Vigilance Urged on Contractors

*OPD Washington Bureau*
*November 27, 1940*

Manufacturing concerns having defense contracts are being urged and assisted by government officials to take special precautions to protect their plants against sabotage, espionage, and industrial accidents and fires which might delay the defense program.

By special order of the President, the Federal Bureau of Investigation of the Department of Justice, in cooperation with the army and navy, has set up a division of industrial security composed of trained men who are available to assist plant managers in working out plans and systems of protection. At the request of military authorities this division has already made studies of more than 1,000 plants working on defense orders, and in a great many cases it has been able to point out means of correcting serious deficiencies in the protection of the plants, the employees, and military secrets. Managers of other plants may, on proper application, secure the loan of a confidential book prepared by the Federal Bureau of Investigation, outlining plans for the protection of industrial facilities.

In spite of a public impression to the contrary, officials insist that there is no wave of sabotage, although its possibility exists and there are isolated instances of mechanical sabo-

*—Continued on page 33*

## Closing Markets

### London Closing Cable

*LONDON, Nov. 29, 1940*

Carnauba wax quoted 410s. per hundredweight. Up 10 shillings.

### Tallow Easy

Tallow was quiet on Friday and the market had an easy tone. Consumers who recently paid 4¾c. per pound for extra, reduced their bids ⅛c. No transactions were reported at the week end.

### Tin Salts Steady

Prices for various tin derivatives held unchanged late in the week. Straits spot metal closed at 50.20c. per pound.

## N.A.R.D. Committee Hits Combine Deals

At a meeting in Chicago November 20 to 22 the executive committee of the National Association of Retail Druggists adopted a statement of the association's 1941 objectives, in which the retailers' growing opposition to combination deals was one of the emphasized points.

Here are the objectives set up:—

1. Demonstrate in every way possible our allegiance and loyalty to our country and its leaders, and offer our services in any manner that may be helpful, whether in peace or emergency.

2. Endeavor to educate manufacturers to realize that combination deals and similar merchandising plans are unsound and uneconomic; that they tend to demoralize distribution by destroying values, and break down fair trade; that they should be discontinued, and be replaced by a "one-price-to-all" policy as contemplated by the Robinson-Patman act.

3. Exercise every legal effort to bring about equitable and economic adjustments of manufacturers' and wholesalers' discounts to cover retailers' costs of doing business.

4. Furtherance of fair trade by every legal means, and resistance to attacks upon it from any direction; so that its benefits may accrue to the consumer, the retailer, the wholesaler, and the manufacturer.

5. Enlist the cooperation of pharmaceutical manufacturers to discontinue the practice of extending discriminatory discounts to hospitals and clinics, and to discontinue promiscuous sampling of physicians.

6. Enlist the cooperation of medical, hospital, relief and civic organizations to restrict the supply of medicines through relief agencies only to those patients who actually are indigent; and to supply no such medicines purchased with public funds to other classes of consumers.

7. Cooperation with Federal and State public health bodies in the fight against venereal diseases.

8. Continued study of the electric rate situation and assistance to local associations in bringing about adjustments.

9. Assistance to members in the promotion of their professional departments, advancement of interprofessional relations, and continued study of the problem of medical and pharmaceutical care for the general public.

*—Continued on page 62*

## Wayne Taylor Made Under Sec'y of Commerce

*OPD Washington Bureau*
*November 27, 1940*

Wayne C. Taylor, who resigned in October as European delegate for the American Red Cross, today assumed his duties as Under Secretary of Commerce. Mr. Taylor has been in public life since 1931 when he collaborated with the Committee on Recent Economic Changes. In 1933 President Roosevelt named him executive secretary to George Peek, first administrator of the agricultural adjustment act. Later he was appointed vice-president and a trustee of the Export-Import Bank, and in 1936 became assistant secretary of the treasury. He resigned this post last year to go to Europe for the Red Cross.

## Du Pont Powder Plant Unit Is Demolished by Blast

*Tacoma, Wash., Nov. 28, 1940*

A black powder storage building at the plant of E. I. du Pont de Nemours & Co., near Fort Lewis, was blown to pieces today by a mysterious explosion. It was isolated from the rest of the plant by earthworks and was used entirely for storage purposes. No one was injured.

## Chemical Price Support Sags

There was further softening in the basic structure of prices for heavy and fine chemicals last week; but its net influence was tempered by advances on alcohols. Relatively few changes were made in either direction.

Contract announcements extended prevailing schedules on phosphates of soda, hydrofluoric acid and fluorides, carbon tetrachloride and bisulphide, barium chloride, cutch and quebracho extracts, benzol, xylol, and solvent naphtha. The new toluol schedule retained the 1½ cent maximum above current prices.

Business had a good volume and appeared to be firmly foundationed. More evidence of defense buying effects was noticeable.

Prices were advanced on plain and C.D. and S.D. alcohols, ethyl acetate, and cottonseed meal in the Southeast.

Prices were reduced on lead, red lead, litharge, orange mineral, quicksilver, gum rosin, and gum turpentine.

The REPORTER's composite index number of prices for heavy and fine chemicals remained at 130.4 (100 = average at August 1, 1914). In comparison with average prices in 1926 (as 100), the REPORTER's index number is now 92.3, compared with 90.5 at this time last year and 88.9 in 1938.

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## Quinine Headquarters Moved to Bandoeng

Persistant reports of Nazi attempts to interfere with the Dutch quinine industry has brought the announcement that the headquarters of the industry has been transfered from Amsterdam to Bandoeng, Java, by royal decree. The announcement was made here by the Cinchona Products Institute, Normal Taylor director, research body controlled by the Dutch interests now headquartered at Bandoeng.

All communication between New York and Amsterdam stopped with the issuance of the decree since to correspond with former associates in Amsterdam might lead to such correspondence being diverted to Nazi ends.

The institute declares that ample production of both cinchona bark and quinine are assured in Java, now the center of the world quinine industry. Quinine production by the Bandoengsche Kininefabriek takes place in the largest factory in the world and there is no danger of a quinine shortage anywhere in the world, says the institute, which also assures Americans that their quinine needs are absolutely removed from Nazi domination.

## Sandarac, Mastic Cargos Pierce British Blockade

A steamer that passed through the British blockade, apparently by permission, has brought to this market 90 cases of gum mastic. Under normal conditions, this would be a six to eight-month supply. The market has dropped to $2 per pound but seemed to be nominal in that buyers were aloof and still lower quotations were expected.

Another ship has pierced the British blockade of French Morocco, bringing to the spot 75 casks of gum sandarac held here for 55c. per pound. Unconfirmed reports were to the effect that the gum was actually sandarac sweepings.

A third ship has also reached here with 38 casks of gum sandarac. The importer is understood to have refused to accept the gum, claiming it to have been damaged by standing waist high in salt water. This issue will likely pass into the hands of the insurance company and a judgment reached by arbitration. It was said late last week that salt water would damage the gum beyond use by the majority of consumers. Pending developments, the market held at 50c. per pound.

## Germany Commandeers French Chemicals

The official publication of the Kommandantur in France carries a requisition decree for certain raw materials for chemical manufacture, according to the Chemical Division of the Department of Commerce. Items included are:—Sulphur, phosphate rock, iodine, opium, arsenic, soda borate, boric acid, toluol and agar-agar. Holders of stocks were forbidden to increase prices above the levels obtaining at the time of occupation of France by the German forces.

## Mutual Drug Stockholder's Case Appeal to Be Heard

*Cleveland, Nov. 25, 1940*

The Ohio State Supreme Court has decided to consider the appeal of Terrance Scullin, of East Cleveland, who brought a stockholder's suit against the Mutual Drug Company, Cleveland, alleging its officers paid hundreds of thousands of dollars in unearned dividends. He asked for an accounting. Common Pleas Judge Frank J. Merrick dismissed the Scullin case a year ago and the dismissal was upheld by the Court of Appeals four months ago.

## White Pigment Corp. Formed

*Proctor, Vt., Nov. 25, 1940*

The White Pigment Corporation has been formed here to manufacture from marble, through a new process, a filler to be used in paint, paper, rubber and linoleum manufacturing. Officers of the company are:—President, C. L. Montgomery, West Rutland, Vt., and vice-president, H. W. Smith.

## Remington Medal Presented to Swain

Dr. Robert L. Swain, editor of *Drug Topics* and *Drug Trade News* and an active figure in pharmacal affairs for two decades, received the Remington Pharmacy Medal at a testimonial dinner in this city November 28.

The Remington medal, founded by the New York branch of the American Pharmaceutical Association, is awarded annually for meritorious service to pharmacy. The award to Dr. Swain recognized his work in associations, for examining boards, and in legislation and law enforcement.

In order that the preliminary reception might be adequate the dinner was held up an hour beyond its scheduled time. After the dinner the medalist was subjected to about two hours of eulogy and encomium:—Dr. E. F. Kelly, secretary of the American Pharmaceutical Association, lauded him as an association member and a public health administrator; Dr. H. C. Christensen, of the National Association of Boards of Pharmacy, told of his influence in that organization; United States Senator Millard Tydings gave some sidelights on his public activities; Dr. Robert P. Fischelis, of the New Jersey Board of Pharmacy, recited his contributions to pharmacal legislation; R. D. Keim, of E. R. Squibb & Sons, praised his influence on pharmacal journalism; Dr. Walter A. Bastedo, former president of the U.S.P. convention, told of his services as a trustee of that institution; Dr. H. Evert Kendig, dean of Temple University pharmacy school, surveyed his contributions to pharmacal education.

Dr. J. Leon Lascoff, retail pharmacist, this city, presented the medal to Dr. Swain. The latter's medal address was keyed to a firm belief that pharmacy has progressed and has achieved, and that it will go farther in necessary and beneficial service to the public health.

## A.Ph.M.A. Defense Speakers Listed

The American Pharmaceutical Manufacturers' Association has completed the list of speakers for the national defense program, to be held at the December 10 morning session of the semi-annual meeting in the Hotel Washington, Washington, D. C., December 9-10. The speakers are:—

Lieut. Colonel C. F. Shook, Medical Corps, chairman of medical supplies committee, commodities division of the Army and Navy Munitions Board.

Commander C. L. Andrus, medical supplies committee, Army and Navy Munitions Board.

Major C. V. Morgan, Medical Corps, director of the commodities division of the Army and Navy Munitions Board.

Carle M. Bigelow, director pharmaceutical division, Calco chemical division, of the American Cyanamid Company; in charge of the purchasing of pharmaceuticals and allied products for the British Purchasing Commission.

J. C. Nichols, director of miscellaneous equipment section, production division, Advisory Commission to the Council of National Defense.

Carson Frailey, executive vice-president, American Drug Manufacturers Association; chairman of drug resources committee, Army and Navy Munitions Board.

Inspector Lee R. Pennington, of the Federal Bureau of Investigation.

Leon Henderson, commissioner in charge of the price stabilization division, Advisory Commission to the Council of National Defense; member of the Securities and Exchange Commission; formerly executive secretary of the Temporary National Economic Committee.

Col. Willard Chevalier will be the banquet speaker at the informal dinner of the meeting on December 9. Col. Chevalier is the publisher of *Business Week* and vice-president of the McGraw-Hill Publishing Company.

## N.Y. Textile Chemists To Meet December 13

R. J. Jacoby, of the Ciba Company, will address the meeting of the New York section of the American Association of Textile Chemists and Colorists to be held December 13 in the Chemists' Club, this city. The subject of Mr. Jacoby's address will be "Trends in Printing and the Use of Resins in Finishing." The usual informal dinner, at 6:30 p.m., will precede the meeting.

# *Metals Loom Large in What Industry Expects of Science*

Metals already occupy such a large place and promise so much more in all aspects of human needs that it is not strange that Research Advisory Science found in its survey of industrial wants a widespread and numerously diversified belief that much could be done with metals to improve conditions in all sorts of respects.

Research Advisory Service, as has been stated in previous publishings herein of the findings of its survey, asked the following question of several thousands of industrial leaders:—

What new product, process, or material might industrial research develop that would be valuable to your industry?

In the expansive and informative and inspiring collation by Bert H. White, director of Research Advisory Service, of the more than 1,000 replies received to the question, metals are numerously represented. Here are the things which Mr. White, Merrill Anderson, assistant director, and their associates found wanted in that field:—

1. A low-temperature method of separating iron oxide from the gangue materials with which it occurs in nature. Such a development would obsolete all the blastfurnaces and most of the coke-ovens.

2. *If a cast iron could be developed that would bend under stress rather than burst, it would be the greatest single development in our industry. Such an iron has been made for laboratory tests.

3. An alloy for use in refining equipment that will resist both hydrogen sulphide corrosion at high or low temperature and hydrochloric acid corrosion at low temperatures.

4. A metal that can be fabricated in a soft state, then hardened to withstand wear as well as the corrosive action of the antidetonating elements used in aviation gasoline. This is a difficult situation in fabrication of carburetors and fuel-injection apparatus.

5. One of the great fields for advancement in the metal industries lies in powder metallurgy. It is perhaps the future method of making intricate parts.

6. A cheap, pure iron powder to be used in the field of powder metallurgy for producing oilless bearings and small machine parts.

7. A metal to be used in bank vaults with a tensile strength at least equal to a good cast iron, that can be machined, drilled, and tapped, and yet resist the oxy-acetylene torch.

8. A process for the shaping and forming of steel direct from the open-hearth ladle rather than the intermediate step of casting into ingot form which produces such phenomena as segregation, piping, and slag inclusions.

9. If some inexpensive method of producing gray iron castings in permanent molds were developed, it would mark a great advance.

10. A die-casting method whereby finished castings may be heat-treated to increase hardness and durability.

11. A low cost corrosive-proof cast iron for use in the oil industry to combat corrosion caused by sulphur gas or sour oil.

12. If some method whereby stainless steel, even though it is different from the present nickel-chrome-content steel, could be developed which could be sold at a price more in line with the prices of brass and copper, the additional usages which it could be put to and the additional industries which might arise, could be of a vast amount of benefit to the nation.

13. Stainless steel that would not be discolored by heat encountered in flat-irons and toasters.

14. In the manufacture of large power washing equipment, we use monel metal or stainless steel. These resist a great many acids that washers do not meet. Accordingly, we are paying too much for the degree of corrosion resistance which we require. We need a metal not attacked by soap or water, having a structural strength approximating monel or stainless steel.

15. A stainless steel material in tubing form, approximately 12 inches OD, 18-gauge wall which would have an expansion and contraction ratio equal to 20-80 copper alloy.

16. *Stainless steel that has a yield point of 150,000 pounds per square inch. Such a material would be extremely valuable in aircraft construction.

17. Stainless steel resistant to brine corrosion and costing not over 5 cents per pound over type 302.

18. Stainless steel completely resistant to differential corrosion from oxygen concentration cells.

19. Reasonably priced steel, highly resistant to corrosion from wet coal, in rolled shapes, plates, and castings.

20. The steel casting industry needs a method of sulphur reduction in melting practice to reduce the final sulphur content.

21. Better materials and methods to prevent cavitation on turbine blades.

22. Metals with greater strength and lighter weight for use on excavator fronts.

23. *Free machining, heat-and-wear-resisting steel bars suitable for machine-gun barrels.

24. Noncorrosive material having much greater stiffness and strength than stainless steel for use as stuffing box shafts for flow meters.

25. Stainless steel of the 18-8 variety in wire form, more susceptible to trimming and machining than the varieties now on the market.

26. A malleable, machinable alloy with magnetic properties comparable to alnico alloys would greatly improve marine compasses.

27. An abrasion resistant steel alloy as hardenable and corrosion resisting as 18-8 or KA2.

28. An acid-resistant metal similar to hastelloy, illium, pure nickel, or monel, which will not have a tendency to gall when run together.

29. *A steel alloy which will cast readily, machine freely, and be acid and-heat-resisting.

30. A moderately priced alloy resistant to corrosion from wet chlorine.

31. A corrosion-resisting alloy of an extremely low yield point and low tensile strength, suitable for ordinary drawing or spinning into concave and convex heads in sizes of ½ inch to 24 inches.

32. *Metal alloy that would resist pitting from electrical arcs.

33. More ductile steel for deep drawing.

34. Light metal die-casting methods to better approximately mirror surfaces and avoid surface blemishes.

35. A process for injection moulding of steel.

36. A nonrusting wire fence and steel post to compete with steel wire and angle posts.

37. A light, strong, durable metal to be used in fabricating boats that would withstand the elements of weather and saltwater. If such a material can be developed, our industry would be put on a basis comparable with the automotive industry.

38. The steel industry very much needs improved technic to bring bessemer steel to a quality rating entirely competitive with that of the open-hearth process. Since the bessemer process uses only 5 percent of steel scrap, while the open hearth uses 50 percent scrap, this would free the steel industry from the vagaries of the scrap market.

39. High-speed steel, comparable to the present alloy which contains 18 percent tungsten, but which will have but 2 percent tungsten, using molybdenum instead.

40. A magnetic steel with zero magneto-striction.

41. A magnetic material with better permeability and less loss than standard motor or transformer iron.

42. A metal having an especially high impact strength for use in an impact-testing machine. We could pay well for this.

43. Reasonably priced steel tubing from 4 inches to 20 inches in diameter, which can be safely operated under 800 pounds pressure and temperatures of 1000 degrees and noncorrosive under the severe conditions under which expansion joints operate.

44. A method for producing German varnished spaghetti tubing with a smooth varnished inside surface.

45. Pipe which will retain a hard, smooth interior surface or an inhibitor for various fluids subject to oxygen concentration to eliminate attack on ferrous metals.

46. Methods for forming and fastening thin sheet metal sections for fabrication.

47. Method for nondestructive examination of ferrous materials and welds.

48. Machinable casting alloy, insoluble in either hot or cold milk.

49. Alloy that will resist brine, that can be rolled into sheets, and be suitable for contact with milk.

50. An alloy suitable for continuous service at 2000° F., with good strength at that temperature, nonbrittle when cooled, and able to be fabricated into sheet, rod, and seamless tube forms. It should be readily weldable and not cost over $1 per pound.

51. Magnesium alloys which are light and noncorrosive.

52. A nontarnishing alloy with a minimum of 925 parts of silver in 1000 will be received with open arms in the sterling-ware industry.

53. Metal that will retain a tensile

—*Continued on page 64*

*Items preceded by an asterisk (*) are those indicated by the National Inventors Council at the request of the Advisory Commission to the Council of National Defense as most urgent from the standpoint of national defense.

## Bottle-Making Patents License Ban Ended

*Toledo, Nov. 27, 1940*

Unrestricted licensing of new concerns desiring to enter the manufacture of glass containers was the principal factor in an agreement looking toward termination of the monopoly suit filed by the government against twelve glass container manufacturers. Details of the agreement, which was announced at the start of the trial today, will be completed for final approval by Federal Judge Kloeb, December 2.

The crux of the agreement provides for the replacement of the Hartford-Empire Corporation, patent holding firm, by an "institute" capitalized at approximately $15,500,000. While this capital would be subscribed by the current glass container and machinery making concerns, licenses would be granted to new companies seeking to enter the industry. Payment of royalties would be made by the new companies on the patents held by the "institute," but not at a higher rate than present container makers.

Companies involved in the suit are:—Owens - Illinois Glass Corporation, the largest container glass maker in the world; Thatcher Manufacturing Company, which the government has claimed enjoyed a virtual monopoly in milk bottle making; the Ball Bros. Company, which was charged by the government with enjoying a similar monopoly in fruit jar manufacture; Hartford-Empire Company, Corning Glass Works, Empire Machine Company, Hazel-Atlas Glass Company, Lynch Corporation, Glass Container Association of America, Inc., the Stevenson Corporation, Liberty Glass Company, and the Anchor Hocking Glass Company.

Libbey-Owens Ford Glass Company and Pittsburgh Plate Glass Company, leading flat glass makers were not involved in the suits.

During the litigation extending over several years the government has contended that a monopoly has existed because only a few companies held all glass container patents. This monopoly, the government held could be dissipated only by the dissolution of the patent holding concern, Hartford-Empire Company.

## Building Supplies Group Dispersed

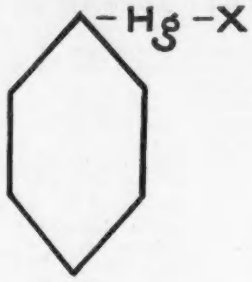
*OPD Washington Bureau*
*November 29, 1940*

Eleven Wisconsin building supplies dealers and companies, whose total business averaged approximately $5,000,000 annually and who had approximately 90 percent to 100 percent of the building supplies business in Milwaukee County, have been ordered by the Federal Trade Commission to cease and desist from certain unfair methods of competition, including a combination for the maintenance of uniform and minimum prices, and the use of boycott and coercion to prevent competing dealers from attaining building supplies. The Commission found that the members of the group contracted to fix prices, discounts, and conditions of sale of building supplies in Milwaukee county, including sales of such supplies made under city, county, and State bids. According to findings, each dealer under contract filed his prices on various items of building material, later getting back a list of prices, discounts, and sales conditions to which he agreed to adhere.

The commission orders that the dealers cease and desist from doing and performing, by understanding, agreement or combination between themselves or with others, the following acts and things:—

Establishing and maintaining uniform and minimum prices at which the dealers should sell building supplies, and uniform terms and conditions attaching to the sale by the dealers of building supplies; interfering with competitors of the dealers in the competitors' efforts to purchase and obtain building supplies; preventing such competitors from purchasing or obtaining supplies; and boycotting and threatening to boycott manufacturers and sellers of building supplies

—*Continued on page 48*

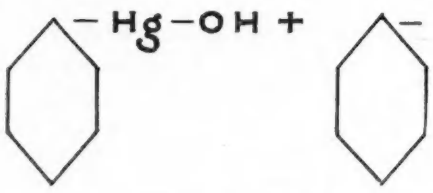



*Announcing*

# ORGANIC MERCURY SALTS IN THE PHENYL GROUP

PHENYL MERCURY ACETATE
CRUDE AND CP

PHENYL MERCURY CHLORIDE
CRUDE AND CP




PHENYL MERCURY NITRATE BASIC

FOR FURTHER INFORMATION WRITE

**F. W. BERK & COMPANY INC.**
WOOD-RIDGE DIVISION
WOOD-RIDGE NEW JERSEY

NEW YORK SAN FRANCISCO

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# Current Market Quotations

## November 29, 1940

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**When not otherwise indicated, quotations are f.o.b. New York prices on large lots. Price changes and trends are noted in the market reports on other pages, with other informative comment. The locations of the several reports are indicated on page 4.**

## A

Acacia (see Gum, arabic).
Acetal, dms., dlvd.....lb. .75 - 1.00
Acetaldehyde, 99%, dms.. 55 & 110 gls., works..lb. .11 - —
5 & 10 gls., works.....lb. .14 - —
Acetamide, CP, kgs., 5,000 lbs. a year, works..lb. .36 - —
200-lb. lots, works.....lb. .38 - —
100-lb. lots, works.....lb. .55 - —
5 to 50-lb. lots, works....lb. .70 - —
tech., kgs., 5,000 lbs. a year, works..lb. .28 - —
200-lb. lots, works.....lb. .30 - —
100-lbs. lots, works.....lb. .45 - —
5 to 50-lb. lots, works....lb. .50 - —
Acetanilide, tech., cryst., bbls..lb. .29 - .31
powd., bbls.....lb. .27 - .29
USP, cryst., bbls., 2,000-lb. lots, lb. .32 - —
smaller lots.....lb. .33 - —
dms., 25-lb. lots.....lb. .38 - —
kgs., 2,000-lb. lots.....lb. .32 - —
smaller lots.....lb. .34 - —
powd., bbls., 2,000-lb. lots..lb. .30 - —
smaller lots.....lb. .31 - —
dms., 25-lb. lots.....lb. .36 - —
kgs., 2,000-lb. lots.....lb. .31 - —
smaller lots.....lb. .32 - —
Acetoacetanilide, dms.....lb. .47 - .65
Acetone, CP, dms., c.l., dlvd..lb. .06½- —
l.c.l., dlvd.....lb. .07 - —
tanks, dlvd.....lb. .05 - —
Methyl (see M).
Acetophenone, bots.....lb. 1.60 - —
cns., 25 to 50 lbs.....lb. 1.30 - 1.35
dms., 100 lbs.....lb. 1.27 - —
Acetophenetidin, bbls., kgs., 1,000 lbs..lb. 1.06 - —
50 lbs.....lb. 1.02 - —
25 lbs.....lb. 1.05 - —
Acid, abietic, dms., c.l., f.o.b. all points in U. S. E. of and including Kans., Neb., N. D., Okla., S. D., Tex. E. of Austin and Brownsville...lb. .08¾- —
l.c.l., same terms.....lb. .09 - —
Acetic, com'l or redist., 28%, bbls..100 lbs. 2.23 2.48
cbys., cs.....100 lbs. 2.73 - 2.98
56%, bbls.....100 lbs. 4.15 - 4.40
cbys., cs.....100 lbs. 4.65 - 4.90
70%, bbls.....100 lbs. 5.17 - 5.42
cbys., cs.....100 lbs. 5.67 - 5.92
80%, bbls.....100 lbs. 5.89 - 6.14
cbys., cs.....100 lbs. 6.39 - 6.64
glacial, nat., CP, cbys.100 lbs.14.00 - —
99.5% bbls.....100 lbs. 7.62 - 7.87
l.c.l., same terms.....lb. .09 - —
cbys. .....100 lbs. 8.12 - 8.37
tanks .....100 lbs.10.00 - 5.50
USP, bbls.....100 lbs.10.25 -10.50
cbys., .....100 lbs.10.75 -11.00
synth., 99.5%, al. dms.100 lbs. 8.43 - 8.68
tanks .....100 lbs. 5.50 - —
USP XI, al. dms...100 lbs.10.25 -11.00
C.P., dms.....100 lbs.13.50 -14.00
pure, 30%, bbls.....100 lbs. 3.28 - 3.53
cbys., cs.....100 lbs. 3.78 - 4.03
36%, bbls.....100 lbs. 3.66 - 3.91
cbys., cs.....100 lbs. 4.16 - 4.41
60%, bbls.....100 lbs. 6.15 - 6.40
cbys., cs.....100 lbs. 6.65 - 6.90
80%, bbls.....100 lbs. 7.68 - 7.93
cbys., cs.....100 lbs. 8.18 - 8.43

Acetic acid price differentials above are for c.l. and l.c.l. quantities; the prices apply dlv'd at destination in the following States: Conn., Dela., D. of C., Md., Mass., N. J., N. Y., N. and S. Car., R. I., Penna., and Va. For all other States except Wash., Ore., and Calif., prices are f.o.b. works, frt. equalized.

Acetic, anhydride, dms., c.l., frt. alld..lb. .10½- .11⅛
l.c.l., dms., frt. alld.....lb. .12 - .13
Acetylsalicylic, special, USP, fine cryst., gran., 200-lb. bbls..lb. .45 - —
standard, USP, fine cryst., gran., 20 or 40 mesh, 20-lb. bbls..lb. .40 - —
powd., 80 mesh, 200-lb. bbls..lb. .40 - —
Adipic, fib, dms., works....lb. .31 - —
Anthranilic, refd., bbls.....lb. 1.15 - 1.20
tech., bbls.....lb. .75 - —
Arsenous, tech. (see Arsenic, White).
USP, powd., dms., kegs....lb. .20 - .22
Ascorbic, bots., dms.....oz. 2.00 - 2.05
Battery, cbys., c.l., E. works, 100 lbs. 1.60 - —
l.c.l., 25 or more, E. works, 100 lbs. 1.85 - —
10-25, E. works....100 lbs. 1.95 - —
1-9, E. works.....100 lbs. 2.55 - —
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. or more, lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59
dms., 4,000 lbs. or more..lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .59 - .60
Boric, tech., 99.5%, gran., bulk, frt. alld..ton.93.50 - —
bgs., c.l., frt. alld...ton.96.00 - —
ton lots, ex whse...ton.108.00 - —
less than ton lots, ex whse..ton.113.00 - —
bbls., c.l., frt. alld...ton.106.00 - —
ton lots, ex whse..ton.118.00 - —
less than ton lots, ex whse..ton.123.00 - —
powd., bgs., c.l., frt. alld. ton.101.00 - —
ton lots, ex whse...ton.113.00 - —
less than ton lots, ex whse..ton.118.00 - —
bbls., c.l., frt. alld..ton.111.00 - —
ton lots, ex whse...ton.123.00 - —
Acid, boric, tech., 99.5%, powd., bbls., less than ton lots, ex whse..ton.128.00- —
USP, $25 per ton higher.
Butyric, 99%, dms., c.l., S. Charleston, W. Va..lb. .22 - —
l.c.l., same basis.....lb. .23 - —
tanks, same basis.....lb. .21 - —
Broenner's bbls.....lb. 1.11 - —
Camphoric, cns.....lb. 7.00 - —
Capric, dms.....lb. .12 - .13
Caproic, dms., works.....lb. .30 - .35
Carbolic (see Phenol).
Caprylic, dms.....lb. .17½- —
Castor oil, split, dms.....lb. .14½- .15½
Chlorosulphonic, d m s., c.l., works..lb. .0350- —
5-drum lots, works.....lb. .04 - —
single drum.....lb. .05 - —
tanks, works.....lb. .03 - —
Chromic, 99%, dms., c.l., dlvd. N.Y..lb. .15¼- —
l.c.l., 5 tons, dlvd., N. Y., lb. .15¾- —
smaller quantities, dlvd., N.Y..lb. .16¼- .17⅛
Cinnamic, refd., bots.....lb. 2.85 - 3.25
Citric, cryst., gran., bbls., car lots..lb. .20 - —
10,000-lb. lots, one shipt. lb. .20½- —
smaller lots.....lb. .21 - —
anhydr., gran., dms., 10,000 lbs., 1 shipt..lb. .23 - —
smaller lots.....lb. .23½- —

Citric acid quotations on powder are ½c. higher than on granular. Keg packing is ½c. higher than barrels. Prices are f.o.b. N. Y. Chicago and St. Louis deliveries are ½c. higher than N. Y.

Cleve's. bbls.....lb. .57 - —
Coconut oil, dms.....lb. .10 - .10½
Corn, dist., dms.....lb. .08¼- .08¾
Cottonseed oil, dist., dms....lb. .06¾- .07¼
tanks .....lb. .06¼- —
Cresylic (coaltar) high-boil 50%, 210°-215°, dms., c.l., works, frt. equald..gal. .68 - —
l.c.l., same basis....gal. .70 - —
special blends (50%, 210°-215°), dms., c.l., works, frt. equald..gal. .71 - —
l.c.l., same basis....gal. .73 - —
low-boil (50%, 204°-206°), dms., c.l., works, frt. equald..gal. .68 - —
l.c.l., same basis....gal. .70 - —
special blends (50%, 204°-206°), dms., c.l., works, frt. equald..gal. .71 - —
l.c.l., same basis....gal. .73 - —
imported, pale, dms...gal. .63 - .65
Cresylic (petroleum), high-boil (240°-300°), non-return dms., c.l., works, East. U.S..gal. .43 - —
l.c.l., same basis.....gal. .44 - .45
tanks, dlvd., East. U.S.gal. .389 - —
medium-boil (222°-249°), non-return dms., c.l., works, East. U.S..gal. .49 - —
l.c.l., same basis....gal. .50 - .51
tanks, dlvd., East. U.S.gal. .448 - —
Crotonic, 100 bbls. or more, dlvd..lb. .21 - —
smaller lots, dlvd.....lb. .26 - —
smaller containers, dlvd....lb. .50 - —
Diethylbarbituric (see Barbital).
Formic, dom., 90%, cbys., c.l., works..lb. .10¾- —
l.c.l., 25 cbys. and over.lb. .11 - —
1-24 cbys.....lb. .11½- —
Fumaric, bbls., 1-ton delivery..lb. .24 - —
smaller lots.....lb. .25 - .28
Gallic, tech., bbls.....lb. .90 - .93
N.F. VI, bbls., 200 lbs., 5 or more..lb. 1.07 - —
single bbls.....lb. 1.10 - —
fib. dms., 25 lbs.....lb. 1.16 - —
Gamma, bbls.....lb. .85 - —
Gluconic, tech., 50%, bbls., 500 lbs..lb. .12 - —
100-lb. kgs.....lb. .15 - —
25 or 50-lb. demijns.....lb. .21 - .25
5-lb. bots.....lb. .29 - —
H. bbls.....lb. .45 - —
Hydriodic, 45-47%, cbys..... lb. 2.42 - —
5-lb. bots.....lb. 2.63 - —
57%, bots.....lb. 2.90 - —
Hydrobromic, 10% dilute, cby. lb. .20 - —
concentrated, 34%, cby.....lb. .35 - —
Hydrochloric (see Muriatic).
Hydrocyanic, cyls., works. ...lb. .80 - 1.00
Hydrofluoric, 30%, bbls.....lb. .06 - .06½
rubber, dms.....lb. .08 - .08½
48%, lead, cbys.....lb. .12 - —
rubber, dms.....lb. .11 - —
52%, lead, cbys.....lb. .13 - —
rubber, dms.....lb. .12 - —
60%, lead, cbys.....lb. .14 - —
rubber, dms.....lb. .13 - —
Hydrofluosilic, 30-35%, 420 lbs., bbls..lb. .09 - .09½
Hypophosphorus, USP, 30%, djns..lb. .75 - .80
Lactic, tech., dark, 22%, bbls., c.l., works..100 lbs. 2.50 - —
l.c.l., works.....100 lbs. 2.75 - —
cbys., works....100 lbs. 3.75 - —
44%, bbls., c.l., works, 100 lbs. 5.50 - —
l.c.l., bbls., works... 100 lbs. 5.75 - —
cbys., works....100 lbs. 6.75 - —
light, 22%, bbls., c.l., works, 100 lbs. 3.50 - —
l.c.l., works.....100 lbs. 3.75 - —
cbys., works....100 lbs. 4.75 - —
44%, bbls., c.l., works.... 100 lbs. 6.50 - —
l.c.l., works.....100 lbs. 6.75 - —
cbys., works....100 lbs. 7.75 - —
50%, edible, 20 or more, cbys..lb. .10½- .11¾
5 to 19, cbys.....lb. .11 - .12
1 to 4, cbys.....lb. .11½- .12½
Acid, lactic, plastic grade, bbls., cbys., 20 or more..lb. .12¼- .13½
5 to 10, cbys.....lb. .12¾- .13¾
1 to 4, cbys.....lb. .13¼- .14⅛
80%, bbls., cbys., 5 or more.lb. .21 - .22
1 to 4, cbys.....lb. .21½- .22½
USP, XI, 85%, cbys.....lb. .42 - .45
USP, VIII, 75%, cbys.....lb. .40 - .43
Lauric, dist., tech., dms.....lb. .12 - .12½
Laurent's, bbls.....lb. .45 - —
Linseed oil, light, dms.....lb. .12¼- .12¾
Maleic, powd., dms.....lb. .30 - —
anhydride, dms., c.l.....lb. .25 - —
l.c.l. .....lb. .26 - —
Malic, powd., kegs.....lb. .47 - —
Mandelic, bots.....lb. 2.30 - —
dms., 1,000 lbs.....lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.15
Mixed, tanks, nitric unit.....lb. .05 - .06
sulphuric unit.....lb. .0085- .009
Molybdic, kegs, works.....lb. .95 - 1.10
Monochloracetic, tech., bbls..lb. .15 - .18
Monosulphonic, bbls.....lb. 1.50 - —
Muriatic, 18°, cbys., c.l., E., works..100 lbs. 1.50 - —
l.c.l., 25 and over, E. works..100 lbs. 1.75 - —
10 to 24, works...100 lbs. 1.85 - —
1 to 9, works...100 lbs. 2.45 - —
tanks, works.....100 lbs. 1.05 - —
20°, cbys., c.l., E. works, 100 lbs. 1.75 - —
l.c.l., 25 and over, works, 100 lbs. 2.00 - —
10 to 24, works...100 lbs. 2.10 - —
1 to 9, works...100 lbs. 2.70 - —
tanks, works.....100 lbs. 1.15 - —
22°, cbys., c.l., E. works, 100 lbs. 2.25 - —
l.c.l., 25 and over, works, 100 lbs. 2.50 - —
10 to 24, works...100 lbs. 2.60 - —
1 to 9, works...100 lbs. 3.20 - —
tanks, works.....100 lbs. 1.65 - —
C.P. dealers, cbys.....lb. .06½- —
6-lb. bots.....lb. .17½- —
consumers, cbys.....lb. .08 - —
6-lb. bots.....lb. .19 - —
Myristic, dist., dms.....lb. .16 - .16½
Naphthenic, dom., acidity 160, dms., c.l., works..lb. .06½ Nom.
l.c.l., works.....lb. .07 Nom.
tanks, works.....lb. .06 Nom.
220 min. acidity, dms., c.l., works..lb. .09 Nom.
l.c.l., works.....lb. .09½ Nom.
tanks, c.l., works.....lb. .08 Nom.
240 min. acidity, dms., c.l., works..lb. .10 Nom.
l.c.l., works.....lb. .10½ Nom.
tanks, works.....lb. No prices
Nicotinic, 25-lb. cns.....lb.11.00 - —
5-lb. bots.....lb.11.50 - —
1-lb. bots.....lb.12.00 - —
Nitric, 36°, cbys., c.l., E. works, 100 lbs. 5.00 - —
l.c.l., 25 and over, E. works..100 lbs. 5.25 - —
10 to 24, works...100 lbs. 5.35 - —
1 to 9, works...100 lbs. 5.95 - —
38°, cbys., c.l., E. works, 100 lbs. 5.50 - —
Western works....100 lbs. 5.75 - —
l.c.l., 25 and over, E. works..100 lbs. 5.75 - —
10 to 24, works...100 lbs. 5.85 - —
1 to 9, works...100 lbs. 6.45 - —
40°, cbys., c.l., E. works, 100 lbs. 6.00 - —
l.c.l., 25 and over, E. works..100 lbs. 6.25 - —
10 to 24 works...100 lbs. 6.35 - —
1 to 9, works...100 lbs. 6.95 - —
42°, cbys., c.l., E. works, 100 lbs. 6.50 - —
l.c.l., 25 and over, works, 100 lbs. 6.75 - —
10 to 24, works...100 lbs. 6.85 - —
1 to 9, works...100 lbs. 7.45 - —
C.P., USP, dealers, cbys...lb. .11¼- —
7-lb. bots.....lb. .21½- —
consumers, cbys.....lb. .13 - —
7-lb. bots.....lb. .23 - —
Oleum (see sulphuric fuming).
Oxalic, dom., bbls., c.l., works, lb. .10¾- —
10,000 lbs. and over.....lb. .11 - —
smaller quantities.....lb. .12 - .14
Palmitic, bgs.....lb. .09¾- .10¼
Palm oil, white, dist., dms..lb. .06¾- .07¼
tanks .....lb. .06¼- —
Phenylacetic, bots.....lb. 1.75 - 3.00
Phosphoric, ortho, tech., 50%, cbys..lb. .06 - —
75%, cbys.....lb. .07½- —
USP, 85%, s. g. 1.710, cbys., 180 lbs..lb. .12 - —
50%, s. g. 1,347, cbys., 70 lbs..lb. .12 - —
dms., 25 lbs.....lb. .15 - —
10%, dilut., cbys., djns...lb. .07 - .07½
Picramic, kgs.....lb. .65 - .70
Picric, bbls.....lb. .35 - —
Propionic synth., pure, 55-gal. dms., returnable, works..lb. .14 - —
tanks, works.....lb. .11 - —
Pyrogallic, tech., lump, powd., bbls..lb. 1.20 - —
cns. .....lb. 1.25 - —
USP, cryst., cns.....lb. 1.70 - —
resubl., cns.....lb. 2.20 - —
Pyroligenous, bbls., dlvd. E.gal. .25 - —
Ricinoleic, com'l, split (see Acid, castor oil, split), tech., dms., c.l., works.....lb. .27 - —
l.c.l., works.....lb. .28 - .33
Salicylic, tech., bbls.....lb. .33 - —
USP, bbls.....lb. .35 - .40
Sebasic, CP, bbls., works....lb. No prices
tech., bbls., works.....lb. No prices
Soybean oil, dist., dms.....lb. .08 - .08½
Stearic, dist., double pressed, bgs., dlvd..lb. .09½- .10½
single pressed, bgs., dlvd..lb. .09 - .10
triple pressed, bgs., dlvd..lb. .12¼- .13¼
saponif., double pressed, bgs., dlvd..lb. .09¾- .10¾
triple pressed, bgs., dlvd..lb. .12½- .13½

## Acacia—Alcohol

Acid, succinic, bbls.....lb. .75 - —
Sulphanilic, CP, bots., works.lb. 1.60 - 1.65
tech., dms., works.....lb. .17 - —
Sulphonaphthenic, dms.....lb. .04 - .10
Sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.25 - —
l.c.l., 25 and over, works, 100 lbs. 1.50 - —
10 to 24, works...100 lbs. 1.60 - —
1 to 9, works...100 lbs. 2.20 - —
tanks, E. works.....ton.13.00 - —
66°, cbys., c.l., E. works, 100 lbs. 1.50 - —
l.c.l., 25 and over, works, 100 lbs. 1.75 - —
10 to 24, works...100 lbs. 1.85 - —
1 to 9, works...100 lbs. 2.45 - —
tanks, E. works.....ton.16.50 - —
98°, tanks, works.....ton.17.50 - —
CP, USP, dealers, cbys.....lb. .06½- —
9-lb. bots.....lb. .15½- —
consumers, cbys.....lb. .08 - —
9-lb. bots.....lb. .17 - —
fuming, 20%, tanks, E. works, ton.18.50 - —
65%, tanks, E. works....ton.26.00 - —
Tannic, tech., bbls., dms....lb. .54 - .56
USP, fluffy, bbls., 1,000-lb. lots..lb. .98 - —
100-lb. lots.....lb. 1.00 - —
25-lb. lots.....lb. 1.03 - —
powd., bbls., 1,000 lbs....lb. .88 - —
smaller lots.....lb. .90 - —
Tartaric, USP, dom., cryst., gran., powd., bbls., 10,000 lbs. or more, one shipment.....lb. .42¾- —
smaller quantities....lb. .43¾- —
kgs. .....lb. .44¼- —
Tobias, bbls.....lb. .55 - .60
Trichloroacetic, bots.....lb. 2.00 - 2.50
Tungstic, CP, kgs., works...lb. No prices
Chem. grade, kgs., works..lb. No prices
Aconite leaves, bls.....lb. .38 - .42
Root, bls.....lb. .45 - .50
Aconitine, amorph., bots.....oz.23.00 - —
vis. .....gr. 1.00 - —
cryst., bots.....oz.42.00 - —
vis. .....gr. 1.60 - —
Adeps lanae, anhyd., dms.....lb. .26½- .27
hyd., dms.....lb. .24½- .25
Agar, 1, bls.....lb. 1.50 - 1.55
3, bls.....lb. No prices
Agaric, white, bls.....lb. 5.00 - 5.25
Albumen, blood, dark, flake, bags, f.o.b. Chicago, frt. alld..lb. .13 - —
powd., grade A, same basis, ton lots..lb. .15 - —
smaller lots, same basis.lb. .18 - —
light, dom., flake, dms., f.o.b. Chicago, frt. alld..lb. .55 - .62
import, bgs.....lb. No prices
Egg, ed., dom., cryst., bbls..lb. .65 - .68
powd., dms., bbls.....lb. .70 - .75
import, cs.....lb. .65 - .68
Alcohol, amyl (see also Fusel oil, refd.), ex pentane, dms., c.l., frt. alld..lb. .111 - —
l.c.l., frt. alld.....lb. .121 - —
tanks, frt. alld.....lb. .101 - —
normal, dms., l.c.l., wks...lb. .25 - —
Tertiary, refd., dms., l.c.l., frt. alld..lb. .09 - —
Benzyl, cas.....lb. .68 - —
drums .....lb. .63 - —
Butyl, normal, cns., works...lb. .13½- .15½
dms., c.l., frt. alld.....lb. .09 - —
l.c.l., frt. alld.....lb. .09½- —
tanks, frt. alld.....lb. .08 - —
tankwagon, frt. alld.....lb. .08½- —
secondary, dms., c.l., frt. paid E. of Miss. R..lb. .07½- —
l.c.l., same terms.....lb. .08 - —
tanks, same terms.....lb. .06½- —
tertiary, denaturing, c.l., dms..lb. .12½- —
l.c.l., dms.....lb. .13 - —
tanks .....lb. .11½- —
Capryl, pure, dms., works....lb. 2.50 - —
tech., dms, works.....lb. .85 - —
Cetyl, dom., CP, fiber ctns., 1,000 lbs..lb. 1.50 - —
500 lbs.....lb. 1.70 - —
100 lbs.....lb. 1.80 - —
25 lbs.....lb. 1.90 - —
5 lbs.....lb. 2.00 - —
com'l, dms.....lb. .95 - —
Cinnamic, bots.....lb. 2.00 - 2.50
Denatured, CD14, dms., c.l., works, E..gal. .32½- —
l.c.l., works, dms.....gal. .37½- —
tanks, E., works.....gal. .26½- —

Prices for territories other than E. of Rockies are 4c. per gal. in tanks, and 5c. per gal. in dms., higher. Tankcar sales require written authorization by Alcohol Tax Unit.

SD1 190 pf., bbls., c.l., E. works..gal. .31½- —
19 bbls., E. works...gal. .33½- —
1 to 18 bbls., E. works, gal. .36½- —
dms., c.l., E. works...gal. .30½- —
19 dms., E. works...gal. .32½- —
1 to 18 dms.....gal. .35½- —
tanks, E. works.....gal. .24½- —

Anhydrous 3c. per gal. higher.

SD2B, dms., c.l., works, E. gal. .28½- —
19 dms., works, E....gal. .30½- —
1 to 18 dms., works, E. gal. .33½- —
tanks, E. works.....gal. .22½- —
SD23G, works, E., c.l., dms., gal. .34½- —
19 dms.....gal. .36½- —
1 to 18 dms.....gal. .39½- —
tanks .....gal. .28½- —

Prices for territories other than E. of Rockies are 4c. per gal., in tanks, and 5c. per gal., in drums, higher.

## Alcohol—Black, Bone

Alcohol, special solvent, dms., c.l., works..gal. .31½- —
20 dms., to c.l.....gal. .33½- —
1 to 19 dms.....gal. .36½- —
tanks, E. works.....gal. .25½- —
Tankcar sales require written authorization by Alcohol Tax Unit.
Diacetone, acetone-free, dms., c.l., dlvd..lb. .09½- —
l.c.l., dlvd.....lb. .10 - —
tanks, dlvd.....lb. .08½- —
tech., dms., c.l., dlvd.....lb. .09 - —
l.c.l., dlvd.....lb. .09½- —
tanks, dlvd.....lb. .08 - —
Ethyl, 190 pf., ex. molasses, dms., c.l.....gal. 6.00½- —
19 dms.....gal. 6.04 - —
5 to 18 dms.....gal. 6.07 - —
1 to 4 dms.....gal. 6.07 - —
tanks .....gal. 5.94½- —
absolute, dms., c.l.....gal. 6.35½- —
19 dms.....gal. 6.39 - —
5 to 18 dms.....gal. 6.42 - —
1 to 4 dms.....gal. 6.42 - —
Ethyl alcohol in bbls. 1c. higher than dms.
Grain alcohol 25c. gal. higher.
Ethylhexyl, dms., c.l., works..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Furfuryl, tech., cns., works..lb. .35 - —
dms., c.l., 33,000 lbs., works, lb. .20 - —
l.c.l., 500 lbs. and more, works..lb. .25 - —
Isoamyl, primary, dms., l.c.l., dlvd..lb. .27 - —
cans, works.....lb. .32 - —
Isobutyl, refd., dms., works..lb. .0690- —
tanks, same terms.....lb. .0590- —
Isopropyl, refd., 91%, dms., 5 gals., f.o.b. dest..gal. .65 - —
55 gals., c.l., same basis, gal. .33½- —
l.c.l., same basis...gal. .38½- —
tanks, frt. alld.....gal. .28½- —
99%, dms., 5 gals., same basis..gal. .65 - —
55 gals., c.l., same basis, gal. .36 - —
l.c.l., same basis...gal. .41 - —
tanks, same basis.....gal. .31 - —
Methyl (see Methanol).
Phenylethyl, bots., cns.....lb. 2.30 - 3.35
Polyvinyl, type A, fiber-pack, 2,000 lbs. and over, f.o.b. cars, Niagara Falls..lb. .65 - —
less than 2,000 lbs.....lb. .70 - —
type B, fiber-pack, 2,000 lbs. and over, same basis..lb. .60 - —
less than 2,000 lbs.....lb. .65 - —
Propyl, normal, dms., works, gal. .70 - —
Octyl (see ethylhexyl alcohol).
Tetrahydrofurfuryl, dms., contract, f.o.b. Waverly, N. Y.lb. .44 - —
450-lb. lots, same basis...lb. .50 - —
cns., f.o.b., Cedar Rapids, Ia. lb. .55 - —
Aldehol, denat., grade, dms., tanks, works..gal. .70 - .72
Aldehyde bisulphite, bbls., dlvd., lb. .17 - —
smaller containers.....lb. .20 - —
Aldol, 98%, 55 and 110 gal. dms., c.l., works..lb. .11 - —
l.c.l., works.....lb. .12 - —
5 and 10 gal. dms., works, lb. .15 - —
Aletris root, bgs.....lb. .39 - .49
Alizarin (see Red, alizarin).
Alkanet root, bgs.....lb. .60 - .65
Aloe, Cape, cs.....lb. .18 - .19
Curacao, cs.....lb. .53 - .54
gourds, bbls.....lb. .80 - .85
Socotrine, kgs.....lb. .42 - .45
Aloin, 140-lb. bbls.....lb. 3.25 - 3.60
100-lb. kgs.....lb. 3.27 - —
25-lb. fib. dms.....lb. 3.34 - 3.64
Alphanaphthol, bbls.....lb. .52 - —
Alphanaphthylamine, bbls.....lb. .32 - —
Althea root, USP, cube cut, bbls., lb. .90 Nom.
Alum, ammonia, burnt, USP, bbls., kgs..lb. .16 - .18
gran., bbls., works....100 lbs. 3.50 - —
dlvd. N.Y., Phil...100 lbs. 3.50 - —
lump, bbls., works....100 lbs. 3.75 - —
dlvd. N.Y., Phil...100 lbs. 3.75 - —
powd., bbls., works....100 lbs. 3.90 - —
dlvd. N.Y., Phil...100 lbs. 3.90 - —
Ammonia alum prices are for contract and open market; f.o.b. Phila.; frt. equalized with Marcus Hook, Boston, Atlanta, or Joliet; rail or water rates, whichever is lower. L.c.l. quantities must carry l.c.l. rate applying; for truck or ex warehouse deliveries all metrop. zones (except N.Y.) add l.c.l. rail or water rate, whichever is lower, from shipping or equalization point, dlvd. N.Y. price apply to truck or ex warehouse.
Potash, gran., bbls., works.... 100 lbs. 3.75 - —
dlvd. N. Y., Phila..100 lbs. 3.75 - —
lump, bbls., works....100 lbs. 4.00 - —
dlvd. N.Y., Phila...100 lbs. 4.00 - —
powd., bbls., works....100 lbs. 4.15 - —
dlvd. N.Y., Phila..100 lbs. 4.15 - —
Potash alum prices on same basis as those for ammonia alum.
Potash, chrome, bbls.....lb. No price
Soda, bbls., c.l., works..100 lbs. 3.25 - —
l.c.l., dlvd.....100 lbs. 4.25 - 5.00
Alumina acetate, tech., basic, powd., insoluble, bbls., 10 or more, dlvd...lb. .35 - —
1 to 9, dlvd.....lb. .40 - —
smaller containers...lb. .50 - —
soluble, bbls., dlvd....lb. .33 - —
smaller containers, dlvd. lb. .45 - —
solut., 32%, bbls., c.l., dlvd..lb. .09½- —
l.c.l., 10 or over, dlvd. lb. .11 - —
1 to 9, dlvd.....lb. .12 - —
normal, pwd., bbls., dlvd. lb. .22 - —
smaller containers, dlvd. lb. .35 - —
solut., 20%, bbls., c.l., dlvd..lb. .08 - —
l.c.l., 10 or over, dlvd. lb. .08½- —
1 to 9, dlvd.....lb. .09 - —
Chloride, anhyd., com'l, dms. (extra), 45,000 lbs. and over, works..lb. .08 - —
12,000 to 40,000 lbs., works..lb. .09 - —
1,100 to 11,000 lbs., works, lb. .10 - —
140 to 875 lbs., works.lb. .11 - —
100 lbs. or less, works.lb. .12 - —
cryst., com'l, dms., c.l., works, lb. .06 - —
l.c.l., works.....lb. .06½- .06¾
solution, 32 deg., cbys., c.l., works..lb. .02¾- —
l.c.l., works.....lb. .03¼- —
Formate, 30% solut., bbls., c.l., dlvd..lb. .13 - —
l.c.l., dlvd.....lb. .15 - —
Alumina, hydrate, heavy, bbls., c.l., works..lb. .0290- —
l.c.l., bbls., works.....lb. .03½- —
bgs., c.l., works.....lb. .0260- —
light, bgs., c.l., dlvd.....lb. .12 - —
l.c.l., bgs., dlvd.....lb. .12½- —
bbls., c.l., dlvd.....lb. .12½- —
l.c.l., bbls., dlvd.....lb. .13 - —
Oleate, dms., contract.....lb. .17½- —
open order.....lb. .17½- .20
Palmitate, precip., bbls.....lb. .20½- .21½
Resinate, precip., dms., dlvd.lb. .15 - —
Stearate, precip., bbls., ctns., c.l..lb. .18 - —
l.c.l. .....lb. .19 - —
Sulphate, com'l, bgs., c.l., works, frt. equaled..100 lbs. 1.15 - —
l.c.l., works, frt. equaled.. 100 lbs. 1.40 - —
bbls., c.l., works....100 lbs. 1.35 - —
l.c.l., works, frt. equaled. 100 lbs. 1.60 - —
iron free, bgs., c.l., works, 100 lbs. 1.60 - —
l.c.l., works.....100 lbs. 1.85 - —
bbls., c.l., works....100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.05 - —
Aluminum, 98-99%, c.l.....lb. .17 - —
l.c.l. .....lb. .18 - —
paste, lining, extra fine, dms., 1,500 lbs..lb. .60½- —
ink, dms., 1,500 lbs.....lb. .70½- —
standard, dms., 1,500 lbs..lb. .37½- —
powder, lining, extra fine, dms., 1,500 lbs..lb. .91 - —
standard, dms., 1,500 lbs..lb. .57 - —
litho, extra brilliant, dms., 1,500 lbs..lb. .42 - —
extra fine, dms., 1,500 lbs..lb. .44 - —
lining, dms., 1,500 lbs....lb. .57 - —
standard, dms., 1,500 lbs..lb. .39 - —
rubber compound, dms., 1,500 lbs..lb. .38 - —
unpolished, dms., 1,500 lbs. lb. .36 - —
varnish, extra brilliant, dms., 1,500 lbs..lb. .41 - —
extra fine, dms., 1,500 lbs.lb. .43 - —
standard, dms., 1,500 lbs..lb. .32 - —
Aluminum paste and powder prices are 5c. per lb. higher for less than 200 lbs.; 2c. per lb. higher for 200-400 lbs.; and 1c. per lb. higher for 400-1,500 lbs.; for containers smaller than drums, prices are 1c. per lb. higher for 100 lbs.; 1½c. per lb. higher for 50 lbs.; 3c. per lb. higher for 10 lbs.; 5c. per lb. higher for 2 lbs.; 8c. per lb. higher for 1 lb.; and 12c. per lb. for ½ lb.; on single shipments of 5,000 lbs. prices are 1c. per lb. lower; for 80,000 lbs. prices are 2c. per lb. lower. Transportation allowed East of Mississippi.
Ambergris, gray, tins.....oz. 15.00 -25.00
Aminopyrine, 100-lb. dms.....lb. 4.00 - —
5-lb. bots.....lb. 4.22 - 4.25
Ammonia, acetate, bbls., kgs., dlvd..lb. .27 - .33
dms., dlvd.....lb. .23 - .26
Aldehyde, dms., works.....lb. .65 - .70
Anhydrous, fertilizer, f.o.b. Belle, W. Va., frt. equal with Hopewell, Va.....ton. 90.00 - —
refrigeration, tanks, works, lb. .05 - —
pure, cycls., dlvd., met. N.Y., lb. .16 - —
Anhydrous ammonia in cylinders is quoted on a nationwide schedule of delivered and stock point prices in all States.
Aqua, 26°, cbys.....lb. .05¼- —
dms., c.l.....lb. .02¼- —
l.c.l. .....lb. .02½- —
tanks (on $NH_3$ content), f.o.b. works..lb. .04 - —
Benzoate, dms., kgs., 4,000 lbs. or more..lb. .40 - —
1,000 lbs. to 3,900 lbs....lb. .41 - —
900 lbs., or less.....lb. .42 - —
Bicarbonate, dms., dlvd., Met. N.Y..lb. .0564- .0614
Bichromate, bbls.....lb. .30 - .32
Bifluoride, bbls.....lb. .14½- .16½
Borate, bbls., kgs.....lb. .15 - .16
Bromide, gran., bbls.....lb. .31 - —
bxs. .....lb. .34 - .35
kegs .....lb. .32 - —
Carbonate, lump, dms., dlvd., Met. N.Y..lb. .08¼- .09¼
cns., same basis.....lb. .14¼- —
powdered, 1c. per lb. higher.
Chloride, tech., (see Ammoniac, sal).
USP, gran., 225-lb. bbls....lb. .12 - .13
100-lb. kgs.....lb. .15 - —
Citrate, 250-lb. bbls.....lb. .75 - —
100-lb. dms.....lb. .80 - —
50-lb. dms.....lb. .82 - —
25-lb. dms.....lb. .84 - .85
Fluoride, bbls.....lb. .17 - .19
Hydroxide (see Ammonia, aqua).
Hypophosphite, dms.....lb. 1.25 - 1.27
jars .....lb. 1.35 - —
Iodide, 5-lb. bots.....lb. 3.71 - —
jars .....lb. 3.65 - —
Linoleate, 80%, anhyd., bbls., lb. .12 - —
Molybdate, kgs., wks.....lb. 1.05 - 1.20
Nitrate, tech., bgs., works, 100 lbs. 4.35 - —
bbls., works.....100 lbs. 4.55 - —
Oleate, dms.....lb. .14 - —
Oxalate, neutral, powd., bbls., kgs..lb. .19 - .25
pure gran.....lb. .32 - —
Perchlorate, kgs.....lb. No stocks
Persulphate, kgs., dom.....lb. .21 - .22
Phosphate, dibasic, N.F.V., bls. lb. .37 - —
kgs. .....lb. .39 - —
tech., bbls., c.l.....lb. .07¼- —
l.c.l. .....lb. .08¾- .09¼
monobasic, crude (fert. grade), 11% N 48% phos., bulk, f.o.b. E. works.. unit-ton. 1.55 & .79
pure, bbls.....lb. .40 - .45
tech., bbls., c.l.....lb. .07¼- —
l.c.l. .....lb. .08¾- .09¼
Salicylate, USP, kgs.....lb. 1.15 - 1.20
Silicofluoride, bbls.....lb. .11¼- —
Stearate, anhydrous.....lb. .24½- —
paste .....lb. .06½- —
Sulphate, dom., bulk, c.l., contr., f.o.b. cars, ports, Dec. shipt..ton. 28.00 - —
spot, same basis.....ton. 29.00 - —
Ammonia sulphate prices are $1 per ton less than above prices f.o.b. cars nearest inland producing oven.
Sulphide, liquid, 40-45%, basis 100%, dms., c.l., dlvd..lb. .08 - —
l.c.l., works.....lb. .12 - .13
tanks, dlvd.....lb. .07½- —
Red, 48%, cbys., works..lb. .07½- —
dms., works.....lb. .05½- —
yellow, 33%, cbys., works..lb. .07½- —
dms., works.....lb. .05½- —
Sulphocyanide, pure, 99-100%, kgs..lb. .65 - —
tech., kgs.....lb. .40 - —
Ammoniac, gum (see Gum, ammoniac).
sal, gray, dom., bbls., c.l. 100 lbs. 5.50 - 5.75
l.c.l. .....100 lbs. 6.00 - 6.70
Sal, white, gran., dom., bbls., c.l., works..100 lbs. 4.45 - —
l.c.l., same basis....100 lbs. 5.15 - —
Import, casks.....100 lbs. No prices
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd..lb. .11½- —
l.c.l., dlvd.....lb. .12 - —
tanks, dlvd.....lb. .10½- —
cns., works.....lb. .16 - .18
ex Pentane, dms., c.l., frt. alld..lb. .10½- —
l.c.l., frt. alld.....lb. .11½- —
tanks, frt. alld.....lb. .09½- —
Alcohol (see Alcohol amyl).
Butyrate, dms., 50 gal., returnable..lb. .75 - —
Caproate, cns.....lb. 2.75 - —
Chloride, normal, dms., works, lb. .56 - —
small lots, works.....lb. .68 - —
mixed, tech., dms., c.l., works..lb. .0565- —
l.c.l., works.....lb. .0665- —
tanks, works.....lb. .0465- —
Nitrite, bots.....lb. 1.80 - 1.85
Mercaptan, dms., l.c.l., works. lb. 1.10 - —
Oleate, dms., l.c.l., works...lb. .25 - —
Salicylate, 5 lbs., bots.....lb. .61 - —
cns., 25 lbs.....lb. .51 - —
Stearate, dms., l.c.l., works..lb. .26 - —
Amylene, dms., c.l., works....lb. .102 - —
l.c.l., works.....lb. .11 - —
tanks, works.....lb. .09 - —
Anethol, bots.....lb. 1.10 - 1.15
Angelica root, dom., bls.....lb. .35 - .40
import., natural, bls.....lb. 1.75 - 1.80
twisted, bls.....lb. 1.95 - 2.00
Angostura bark, bls.....lb. .30 - .32
Anilin oil, dms.....lb. .15 - —
l.c.l. .....lb. .16 - —
tanks .....lb. .14½- —
Salt, dms., works.....lb. .22 - .24
Anise, Bulgarian, bgs.....lb. .17 - .18
Cyprus, bgs.....lb. .17 - .18
Mexican, bgs.....lb. .16½- .17
Star .....lb. .17 - .18
Anisic aldehyde, bots.....lb. 2.85 - 2.90
Annatto paste, bxs.....lb. .34 - .39
seed, bgs.....lb. .06½- .07
Anthracene, 80-85%, bbls., wks., lb. .55 - —
90%, bbls., wks.....lb. .65 - —
Anthraquinone, 99.5%, subl., bbls., lb. .65 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys.....lb. .17 - —
Metal, spot.....lb. .14 Nom.
Needle, brown, Bolivian, 67%..lb. .16 - —
Chinese, black, 70%.....lb. .24 - .28
Oxide, bgs., c.l.....lb. .13 - —
l.c.l. .....lb. .14½- —
Salt, 65%, dms.....lb. .28 - —
bbls. .....lb. .36 - —
White pigment, bgs., f.o.b. Laredo, Tex..lb. .13 - .14
Antipyrene, bbls., kgs., ton lots, lb. 2.00 - —
smaller lots.....lb. 2.10 - 2.15
Apomorphine, bots.....oz. 23.20 -23.70
Archil extract, con., bbls.....lb. No prices
double, bbls.....lb. No prices
triple, bbls.....lb. No prices
Areca nuts, powd., bbls.....lb. .11 - .12
Arecoline hydrobromide, bots..oz. 5.00 - 6.50
Argols, test 70% to 85%, basis 100%, 100 kgm., purity, kilos. No prices
Arnica flowers, bls.....lb. 1.75 Nom.
Root, bls.....lb. .55 - .57
Arrowroot, St. Vincent, powd. bgs..lb. .09 - .09½
bbls. .....lb. .09½- .10
Arsenic, metal, lump, cs.....lb. No prices
Chloride (arsenous), cns....lb. 4.85 - —
Iodide (arsenous), 5-lb. bots..lb. 5.58 - —
jars .....lb. 5.43 - —
Red, import, cs.....lb. No prices
Trioxide (see Acid, arsenous).
White, powd., kgs., c.l.....lb. .03½- —
l.c.l. .....lb. .04¼- —
Asafetida, cs.....lb. .36 - .37
powd., bbls., bxs.....lb. .54 - .55
Asbestine (see Talc, N. Y. fibrous).
Asbestos fiber, 5M, bgs., c.l., (20 tons), Canad. mines..ton. 42.50 - —
5R, bgs., c.l. (20 tons), Canad. mines..ton. 40.00 - —
6D, bgs., c.l. (30 tons) Canad. mines—ton. 30.00 - —
7D, bgs., c.l. (30 tons), Canad. mines..ton. 26.00 - —
7F, bgs., c.l. (30 tons), Canad. mines..ton. 24.00 - —
7H, bgs., c.l. (30 tons), Canad. mines..ton. 20.00 - —
7K, bgs., c.l. (30 tons), Canad. mines..ton. 17.50 - —
7M, bgs., c.l., (30 tons), Canad. mines..ton. 15.00 - —
Asphaltum, Manjak No. 10, crude, tons, f.o.b. plant.....lb. .04½- —
smaller lots, f.o.b. plant, lb. .05½- —
process form, bgs., 20 tons, f.o.b. plant..lb. .05 - —
smaller lots, f.o.b. plant, lb. .06 - —
California, dms., c.l., f.o.b. N.Y..ton. 29.00 - —
l.c.l., f.o.b. N. Y.....ton. 36.50 - —
Cuban A, bgs., c.l., f.o.b. N.Y. ton. 60.00 - —
l.c.l., f.o.b. N. Y.....ton. 90.00 - —
B, bgs., c.l., f.o.b. N. Y...ton. 35.00 - —
l.c.l., f.o.b. N. Y.....ton. 55.00 - —
Egyptian, bgs., c.l., f.o.b. N.Y., lb. .12 - —
l.c.l., f.o.b. N. Y.....lb. .15 - —
Gilsonite, brilliant black, bgs., c.l., Western shipt. points, ton. 32.00 - —
seconds, bgs., c.l., Western shipt. points..ton. 25.50 - —
selects, bgs., c.l., Western shipt. points..ton. 32.90 - —
l.c.l., f.o.b. N. J. or N. Y., whse..ton. 58.00 - —
jet, bgs., c.l., Western shipping points..ton. 30.50 - —
Mexican, Texas, dms., c.l., refinery..ton. 19.00 - —
l.c.l., refinery.....ton. 21.00 - —
tanks, refinery.....ton. 16.00 - —
Petroleum, cut-back, bbls., l.c.l., E. cst., refinery..gal. .13 - —
dms., c.l., E. cst., refinery, gal. .12 - —
tanks, Calif., refinery...ton. 12.50 -14.00
East Coast, refinery...gal. .06 - .06½
Ill., Ind., refinery.....gal. .06½- —
N. Orleans, refinery...gal. .06 - —
Atropine, bots.....oz. 5.75 - 6.00
Sulphate, bots.....oz. 5.50 - 5.75

## B

Balm of Gilead buds, bgs.....lb. .40 - .45
Barberry bark, bgs.....lb. .37 - .39
Tree bark, bls.....lb. No Prices
Barbital, cs.....lb. 3.50 - 3.60
sodium, cs.....lb. 3.75 - —
Barium carbonate, natural, 99% thru 200 mesh, bgs., c.l., works..ton. 43.00 - —
precip., bgs., c.l., works..ton. 45.00 - —
l.c.l., works.....ton. 50.00 - —
bbls., c.l., works.....ton. 50.00 - —
l.c.l., works.....ton. 55.00 - —
sulphur-free, bgs., c.l., works, ton. 50.00 - —
l.c.l., works.....ton. 55.00 - —
Barium, chlorate, kgs.....lb. .45 Nom.
Chloride, CP, cryst., bbls....lb. .25 - —
tech., dom., cryst., bgs., c.l., Zone 1, dlvd., New England States, N. Y., N. J., Pa., Md., Va., Ohio, Mich., Ind., Wisc., Ill., Ky., and principal cities on west bank of Miss., north of Miss., north of Ark. line .....ton. 77.00 - —
bbls., same basis..ton. 79.00 - —
l.c.l., bgs., same basis ton. 90.00 - —
bbls., same basis..ton. 92.00 - —
Zone 2, bgs., c.l., dlvd., Tenn., N.-S. Carolina, Ga., Ala., Miss., Fla., ton. 81.00 - —
bbls., same basis...ton. 83.00 - —
l.c.l., bgs., same basis, ton. 94.00 - —
bbls., same basis...ton. 96.00 - —
Zone 3, bgs., c.l. Minn., Ia., Mo., Col., N. Mex., Idaho, Utah, Ariz. ton. 87.00 - —
bbls., same basis...ton. 89.00 - —
l.c.l., bgs., same basis, ton. 100.00 - —
bbls., same basis...ton. 102.00 - —
Zone 4, bgs., c.l. dlvd., Wash., Ore., Calif., Nev..ton. 83.00 - —
bbls., same basis..ton. 85.00 - —
l.c.l., bgs., same basis..ton. 96.00 - —
bbls., same basis..ton. 98.00 - —
Dioxide, dms., c.l., works...lb. .10 - —
l.c.l., same basis.....lb. .12 - .15
Fluoride, bbls.....lb. .14 - .15
Hydrate (see Hydroxide).
Hydroxide, bbls., works.....lb. .05½- .07
Iodide, bots.....lb. 4.77 - —
jars .....lb. 4.62 - —
Monoxide (see Oxide).
Nitrate, cks.....lb. .08½- .10¼
Oxide, ungrd., dms., c.l., works. lb. .08 - —
l.c.l., same basis.....lb. .10 - .12
grd., dms., l.c.l., works....lb. .11 - .15
Peroxide (see Dioxide).
Silicofluoride, bbls.....lb. .12 - .16
Sulphate, tech. (see Barytes and blanc fixe).
X-ray, bbls.....lb. .09½- .10
kgs. .....lb. .12 - —
Barytes, dom., floated, bbls., c.l., St. Louis..ton. 25.15 - —
l.c.l., same basis.....ton. 26.15 - —
paper bags, c.l., St. Louis, ton. 22.85 - —
l.c.l., same basis.....ton. 23.85 - —
ex whse., New York....ton. 31.50 - —
Southern off color, bulk mines, ton. 12.00 - —
95.75%, bulk mines.....ton. 16.00 - —
ore, bulk, mines.....ton. 7.00 - —
Cuban, crude, c.l., c.i.f.....ton. 11.00 - —
German, grd., bbls., c.l., dock, t.a..ton. No prices
l.c.l., ex whse.....ton. No prices
ungrd., bulk, c.l., ex dock. ton. No prices
Italian, grd., bbls., c.l., ex dock, t.a..ton. No prices
l.c.l., ex whse.....ton. No prices
Bauxite, bulk mines.....ton. 7.00 -10.00
Bay leaves (see Laurel leaves).
Bay rum, import, bbls.....lb. .82 - .90
Bayberry bark, bgs.....lb. .14 - .15
Belladonna leaves, bls.....lb. 1.75 - 2.00
Root, bls.....lb. 1.50 Nom.
Bentonite, 200 mesh bgs., Wyo., works..ton. 11.00 - —
325 mesh, bgs., Wyo., works, ton. 16.00 - —
Benzaldehyde, tech., cbys., dms., lb. .45 - .50
N.F. VI, dms., 50 to 100 lbs..lb. .85 - —
5 to 25 lbs.....lb. .90 - .95
Benzene (see Benzol).
Benzidin base, bbls.....lb. .70 - —
Benzol, 90%, dms., returnable, works..gal. .19 - —
tankcars, frt. alld. E. of Omaha, gal. .14 - —
W. Coast, f.o.b. Minnequa, Colo..gal. .14 - —
Benzoyl chloride, cbys.....lb. .23 - .28
Peroxide, pure, gran., fib. ctns., works..lb. 1.95 - —
Benzyl acetate, f.f.c., cans....lb. .49 - —
dms. .....lb. .44 - —
Alcohol (see Alcohol, benzyl).
Benzoate, a.m.a., f.f.c., cans..lb. .84 - —
dms. .....lb. .80 - —
Chloride, 95.97%, refd., dms., lb. .19 - .21
Cinnamate, cns.....lb. 4.15 - 5.50
Formate, cns.....lb. 2.75 - 3.50
Benzylidineacetone, bots.....lb. 2.00 - 2.50
Berberine bisulphate, cns.....lb. 17.25 -17.50
Hydrochloride, cns.....lb. 17.25 -17.50
Sulphate, cns.....lb. 17.25 -17.50
Berberis root, bls.....lb. .12 - .13
Betanaphthol, sublim., kgs....lb. .60 - —
tech., bbls., c.l., works....lb. .23 - —
l.c.l., bbls., works.....lb. .24 - —
Benzoate, fib. dms.....lb. 2.10 - —
kgs. .....lb. 2.00 - —
Betanaphthylamine, tech., kgs. lb. .51 - —
Beth root, bls.....lb. .19 - .21
Bismuth chloride, 5-lb. bots...lb. 3.20 - 3.25
Citrate, USP, VIII, 5-lb. bots., lb. 2.76 - —
jars .....lb. 2.65 - —
Hydroxide, 5-lb. bots.....lb. 3.46 - —
cns. .....lb. 3.35 - —
Metal, ton lots.....lb. 1.25 - —
Nitrate, cryst., 5-lb. bots...lb. 1.45 - —
cns. .....lb. 1.30 - —
Oxychloride, 5-lb. bots.....lb. 3.19 - —
cns., kgs.....lb. 3.10 - —
Subbenzoate, 5-lb. bots.....lb. 3.36 - —
fib. dms.....lb. 1.13 - —
Subcarbonate, bots., cns.....lb. 1.82 - 2.08
fib. dms.....lb. 1.73 - 1.76
X-ray, 5-lb. bots.....lb. 3.02 - —
fib. dms.....lb. 2.96 - —
Subgallate, bots., cns.....lb. 1.77 - 2.08
fib. dms.....lb. 1.68 - 1.71
Subiodide, cns.....lb. 4.01 - —
fib. dms.....lb. 3.98 - —
Subnitrate, powd., bots., cns.lb. 1.57 - 1.85
fib. dms.....lb. 1.48 - 1.51
Subsalicylate, 60-66%, bots..lb. 2.59 - —
bbls., fib. dms.....lb. 2.50 - —
Sulphocarbolate, 5-lb. bots...lb. 3.61 - —
fib. dms.....lb. 3.50 - —
Trioxide, powd., 5-lb. bots...lb. 3.56 - —
cns. .....lb. 3.45 - —
Bismuth-ammonia, citrate, USP, powd., 25-lb. dms..lb. 3.40 - —
5-lb. cns.....lb. 3.45 - 3.50
Black, acetylene, c.l., works, duty paid..lb. .14 - —
Bone, 1A, bbls., bgs., c.l., frt. alld. E..lb. .17 - —
l.c.l., frt. alld. E.....lb. .17½- —
3, bbls., bgs., c.l., frt. alld. E., lb. .10½- —
l.c.l., frt. alld. E.....lb. .11 - —

FOR
EVER-
WIDENING
USES...
ALLIANCE OIL CORPORATION

# ...to Cosmetics!

EVEN we who market petroleum never cease to marvel at its versatility. It would seem almost enough for any product to give us light, power, heat, lubricants, amazing new plastics, synthetic rubbers, all sorts of waxes and countless pharmaceuticals.

But these are only the commonly known uses of oil. For the magic of science converts this treasure of the earth into ever-widening uses...into oils so delicate for beauty...and oils so tough for industry.

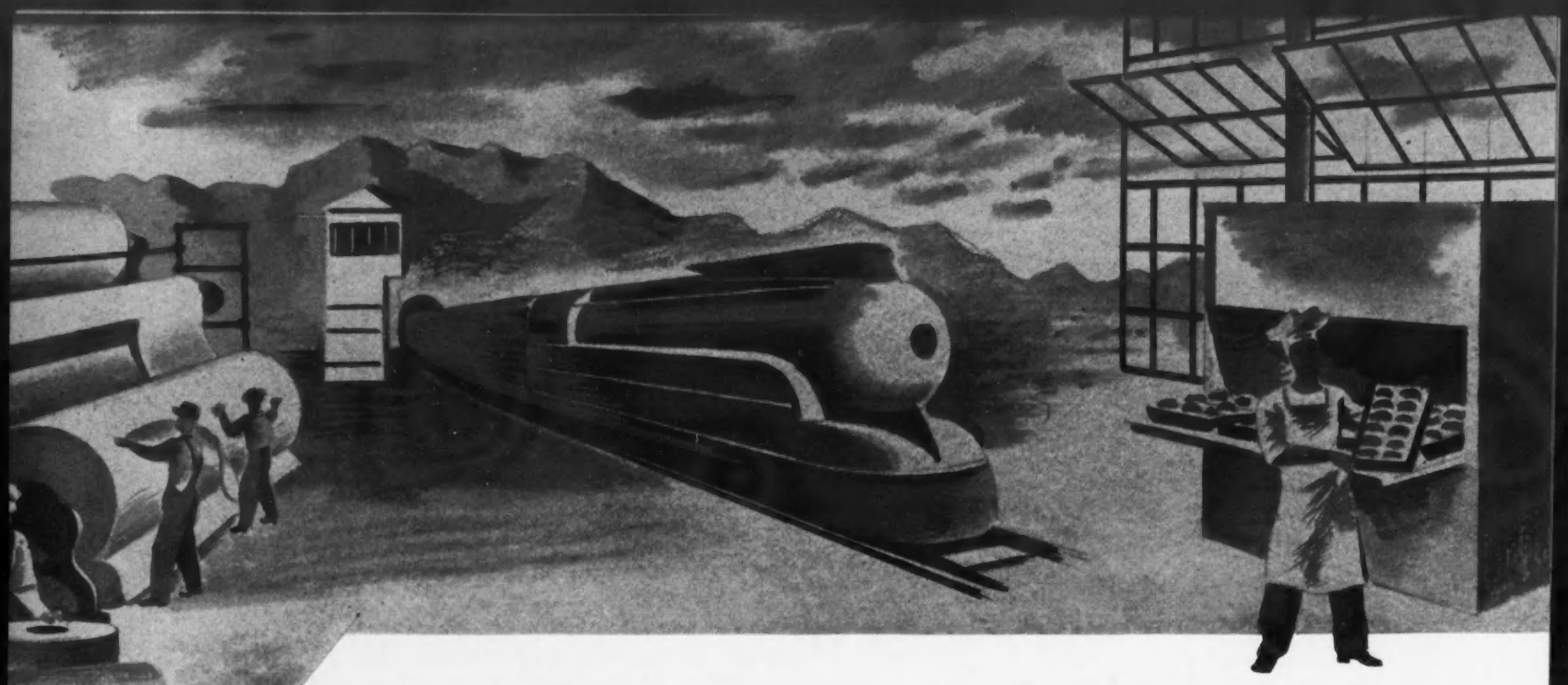
With the growth of petroleum for this wide variety of uses, the name Alliance is climbing into prominence. Its vast knowledge of oils, its ability to select oils with correct characteristics for each manufacturer's requirements, its dependability for purity and uniformity...have led company after company, who want to reap the riches and economies of petroleum, to turn to Alliance.

ALLIANCE OIL

9 ROCKEFELLER PLAZA

CORPORATION

NEW YORK · NEW YORK



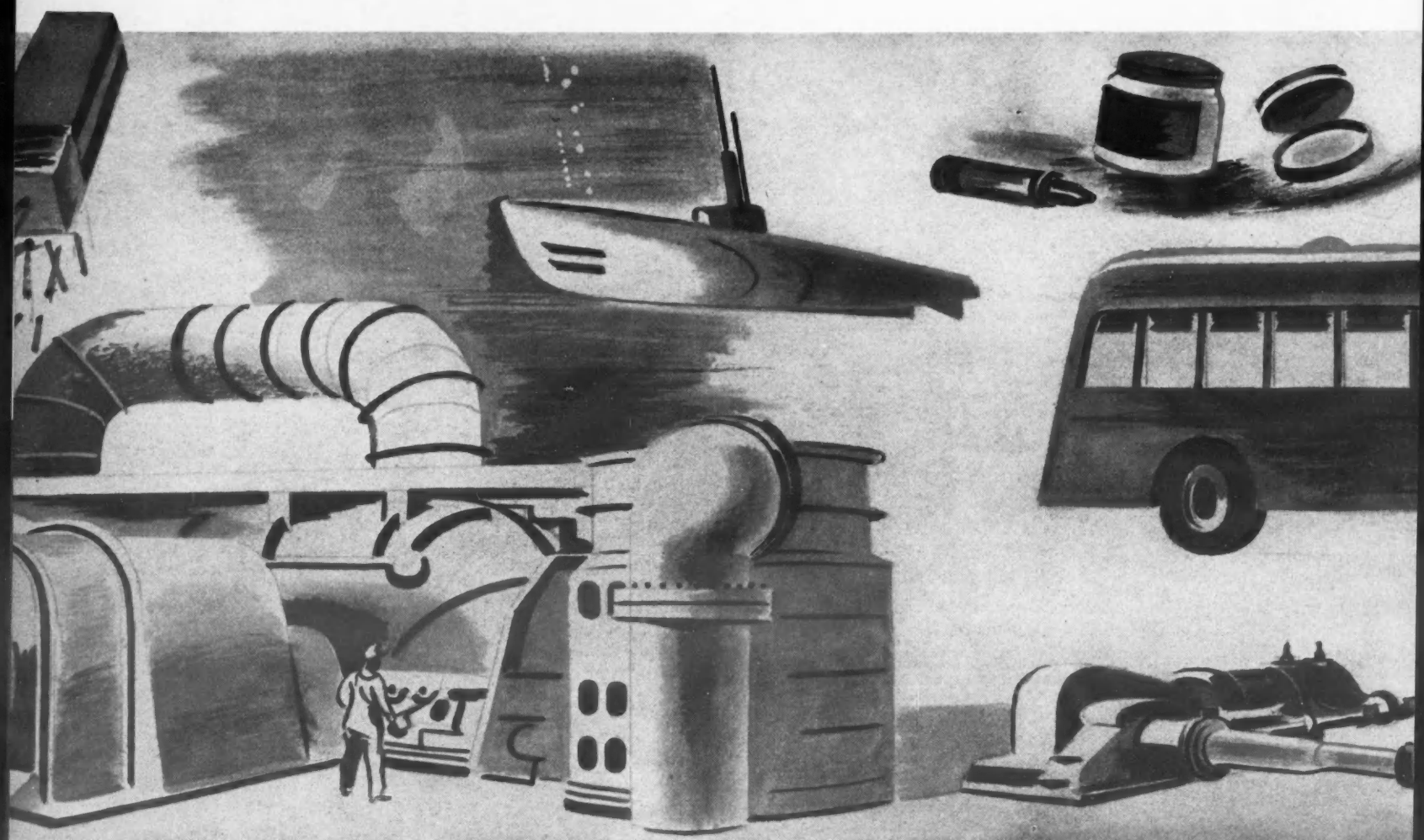
AVIATION OILS · AUTOMOBILE OILS

TRANSFORMER OILS · MEDICINAL OILS

TURBINE OILS · RAILROAD OILS · WAXES

DIESEL OILS · TRACTOR OILS · PETROLATUMS

STEAM CYLINDER OILS · TECHNICAL WHITE OILS



ALLIANCE OIL CORPORATION

Black, bone, 4, bbls., c.l., frt. alld. E..lb. .09½- —
l.c.l., frt. alld. E.....lb. .10 - —
5, bbls., bgs., c.l., frt. alld. E., lb. .08½- —
l.c.l., frt. alld. E.....lb. .09 - —
6, bbls., c.l., frt. alld. E..lb. .08½- —
l.c.l., frt. alld. E.....lb. .07 - —
7, bbls., bgs., c.l., frt. alld. E., lb. .10 - —
l.c.l., frt. alld. E.....lb. .10½- —
8, bbls., bgs., c.l., frt. alld. E., lb. .11 - —
l.c.l., frt. alld. E.....lb. .11½- —
Bone black prices on Pacific Coast are 1c. per lb. higher, ex dock or ex whse.
Carbon, regular, uncompressed, bgs., c.l., f.o.b. plants..lb. .03075- —
f.o.b. North Atlantic ports..lb. .03950- —
l.c.l., bgs. or cartons, f.o.b. whse..lb. .07025- —
dlvd..lb. .07025- —
beads, compressed, bgs., c.l., f.o.b. plants..lb. .02925- —
f.o.b. North Atlantic ports..lb. .02925- —
l.c.l., bgs. or cartons, f.o.b. whse..lb. .06525- —
dlvd..lb. .06525- —
bulk, cars, c.l., f.o.b. plants, lb. .02¾- —
f.o.b. New York harbor..lb. .0368- —
All carbon black prices are for delivery in August-September.
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, 1, pure, bbls., l.c.l., works..lb. .08¾- —
2, bbls., l.c.l., works.....lb. .08 - —
Ivory, genuine, bbls.....lb. .32 - —
Lamp, dom., 1, ctns., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
2, ctns., c.l., works.....lb. .09 - —
l.c.l., works.....lb. .10 - —
2A, ctns., c.l., works.....lb. .11 - —
l.c.l., works.....lb. .12 - —
3, ctns., c.l., works.....lb. .13 - —
l.c.l., works.....lb. .14 - —
4, ctns., c.l., works.....lb. .15 - —
l.c.l., works.....lb. .16 - —
5, ctns., c.l., works.....lb. .17 - —
l.c.l., works.....lb. .18 - —
6, ctns., c.l., works.....lb. .24 - —
l.c.l., works.....lb. .25 - —
7, ctns., c.l., works.....lb. .34 - —
l.c.l., works.....lb. .35 - —
vine, A, bbls., works or N. Y., lb. .04¼- —
B, bbls., works or N. Y..lb. .05½- —
works..lb. .13½- .15½
dms., c.l., frt. alld.....lb. .09 - —
l.c.l., frt. alld.....lb. .09½- —
Black dyes are listed under Dyes.
Black Haw, root bark, bls....lb. .29 - .30
Tree bark, bls.....lb. .16 - .17
Black Indian hemp root, bls..lb. .22 - .23
Blanc fixe, dry, by-product, bgs., c.l., works..ton.50.00 - —
l.c.l., works.....ton.62.50 - —
direct process, bgs., c.l., works. frt. equaled..ton.70.00 - —
l.c.l., same basis..ton.75.00 -90.00
pulp, 66%%, bbls., c.l., works. ton.35.00 - —
l.c.l., works. .....ton.42.50 - —
Bleaching powder, dms., c.l., works..100 lbs. 2.00 - 2.85
l.c.l., works.....100 lbs. 2.25 - 3.35
Blood, dried, dom., 16-16½ ammon., bgs., f.o.b. N. Y., unit-ton. 2.50 - —
high-grade, gr., 16-17 ammon., bulk, f.o.b. Chicago, unit-ton. 2.80 - —
import, bgs., c.i.f. ports, ship..unit-ton. 2.50 - —
soluble (see Albumen, blood)
Bloodroot, bls.....lb. .11 - .12
Blue, alkali, toner, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. river, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis, lb. .80 - .90
Alkali blue toner prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Bronze, bbls., same basis, contracts..lb. .33 - —
Celestial, bbls.....lb. .10 - .12
Chinese, bbls., same basis, contracts..lb. .33 - —
Cobalt, genuine, 1-kilo pkg..lb. 4.90 - —
Imitation (see Blue, ultramarine).
Copper, phthalocyanin, bbls., f.o.b. works, frt. alld..lb. 3.30 - 3.75
Milori, bbls., same basis, contracts..lb. .33 - —
Potash, dom., bbls., same basis, contracts..lb. .42 - —
Prussian, bbls., same basis, contracts..lb. .33 - —
Tungstated, peacock, kgs....lb. 3.75 - —
Victoria, kgs.....lb. 3.25 - —
Ultramarine, dry or pulp, cobalt grades, bbls., works, frt. equald..lb. .22 - .24
jobbing grades, bbls., same basis..lb. .11 - —
regular grades, bbls., same
Blue, ultramarine, dlvd., ex whse., is 1c. higher; Pac. Coast, ex whse., 2c. higher; 100-lb. kgs., 1c. above bbls., 28-lb. boxes 5c. above bbls.
Victoria, ink toner, bbls., same basis, alkali toner..lb. 1.85 - —
Blue dyes are listed under Dyes.
Blue mass, USP, cns., tubs..lb. 1.67 - 1.84
powd., cns., dms.....lb. 1.60 - 1.62
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Bone, raw, dom., 4½% ammon., 50% phos., bgs., f.o.b. Chicago..ton.30.00 -33.00
import, bgs., c.i.f. ports..ton.31.00 - —
meal, steamed, dom., 3% ammon., 50% phos., bgs., f.o.b. Chicago..ton.32.00 - —
import, bgs., c.i.f. ports..ton.31.50 - —
Phosphate, recip. (see Calcium phosphate dibasic, precip.).
Steamed, dom., 1¼% ammon., 60% phos., bgs., f.o.b. Chicago..ton.32.00 - —
import, 1% ammon., 65-70% phos., bgs., c.i.f. ports..ton.34.50 - —
Boneset leaves, bls.....lb. .08½- .09
Borage flowers, bls.....lb. .35- .48
Borax, tech., 99½% gran., bulk, c.l., frt. alld..ton.40.50 - —
bgs., c.l., frt. alld.....ton.43.00 - —
ton lots, ex whse....ton.54.00 - —
less than ton lots, ex whse..ton.59.00 - —
bbls., c.l., frt. alld....ton.58.00 - —
ton lots, ex whse....ton.64.00 - —
less than ton lots, ex whse..ton.69.00 - —
Borax, tech., bgs., c.l., frt. alld. ton.48.00 - —
ton lots, ex whse....ton.59.00 - —
less than ton lots, ex whse..ton.34.00 - —
bbls., c.l., frt. alld....ton.58.00 - —
ton lots, ex whse....ton.69.00 - —
less than ton lots, ex whse..ton.74.00 - —
USP, $15 per ton higher.
Bordeaux mixture, dms., c.l., dealers..lb. .11 - —
l.c.l., dealers, dms..lb. .11½- —
Bordeaux mixture prices are works or whse. basis, frt. alld. to dest. in lots of 90 lbs. and over, no trucking or freight allowances for works or warehouse pick-ups.
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purif., cs., 1,000 lbs., frt. alld. E. of Rockies..lb. .25 - —
single pkg., same basis..lb. .30 - —
Bromoform, USP, 100-lb. lots, bots..lb. 1.50 - —
cbys. .....lb. 1.42 - —
Bromstyrol .....lb. 2.50 - 3.75
Bronze powder, aluminum (see A).
Gold, litho, cns., dms., over 10 lbs..lb. .60 - .65
moulding, cns., dms., over 10 lbs..lb. .80 - 1.00
printing ink, cns., dms., over 10 lbs. .85 - 1.20
radiator, cns., dms., over 10 lbs..lb. .45 - .50
Broomtops, bls.....lb. .12 - .13
Brown, iron oxide, pure precip., cks., f.o.b. N.Y..lb. .11½- —
Metallic, iron oxide, bbls., wks. lb. .02¼- —
paper bgs., c.l., works.....lb. .0210- —
Sienna, burnt, American, bbls., f.o.b. works..lb. .03¼- —
Italian, Group 1, bbls., f.o.b. N.Y. or Pa. points..lb. .12½- —
2, bbls., same basis....lb. .11½- —
3, bbls., same basis....lb. .10½- —
4, bbls., same basis....lb. .09 - —
5, bbls., same basis....lb. .09 - —
6, bbls., same basis....lb. .08½- —
7, bbls., same basis....lb. .08¼- —
8, bbls., same basis....lb. .08 - —
9, bbls., same basis....lb. .07½- —
10, bbls., same basis....lb. .07½- —
11, bbls., same basis....lb. .07 - —
12, bbls., same basis....lb. .06½- —
13, bbls., same basis....lb. .06½- —
14, bbls., same basis....lb. .05¾- —
raw, American, bbls., f.o.b. works..lb. .02¾- —
Italian, Group 1, bbls., f.o.b. N. Y. or works..lb. .12¾- —
2, bbls., same basis....lb. .11½- —
3, bbls., same basis....lb. .12¾- —
4, bbls., same basis....lb. .09¾- —
5, bbls., same basis....lb. .09½- —
6, bbls., same basis....lb. .08¾- —
7, bbls., same basis....lb. .09 - —
8, bbls., same basis....lb. .07½- —
9, bbls., same basis....lb. .07 - —
10, bbls., same basis....lb. .06¼- —
11, bbls., same basis....lb. .05¼- —
Umber, American, bbls., works, lb. .03½- —
Turkey, bbls., l.c.l., f.o.b. Bethlehem, Easton, Pa., N.Y..lb. .04½- —
St. Louis.....lb. .04¾- —
l.c.l., ex car Los Angeles, Portland, San Francisco, Seattle..lb. .05 - —
ex whse, Los Angeles, Portland, San Francisco, Seattle..lb. .05½- —
Boston .....lb. .04½- —
Chicago, Indianapolis, New Orleans..lb. .05 - —
Kansas City.....lb. .05½- —
Minneapolis .....lb. .0510- —
Pittsburgh .....lb. .04¾- —
Vandyke, bbls., l.c.l.....lb. No prices
Walnut crystals, bbls.....lb. .06½- —
Brucine, 100 oz., cns.....oz. .15 - —
Sulphate, 100 oz., cns.....oz. .12 - —
Bryonia root, bls.....lb. .28 - .30
Buchu leaves, bls.....lb. .62 - .65
Buckthorn bark, true, bls.....lb. .75 Nom.
cut and sifted, bbls...lb. No prices
Berries, bgs.....lb. .30 - .35
Burdock root, bls.....lb. .30 - .35
Burgundy pitch, dom., dms...lb. .06 - .06½
Butternut bark, bls.....lb. .07 - .08
Butyl acetate, norm., cns., wks. lb. .13½- .15½
dms., c.l., frt. alld.....lb. .09 - —
l.c.l., frt. alld.....lb. .09½- —
tanks, frt. alld.....lb. .08 - —
tankwagons, frt. alld....lb. .08¼- —
secondary, dms., c.l., frt. pd. E. of Miss. R..lb. .07½- —
dms., l.c.l., same terms..lb. .08 - —
tanks, same terms.....lb. .06¼- —
Alcohol (see Alcohol):—
Aldehyde, dms., c.l. works...lb. .15½- —
l.c.l., works.....lb. .16½- .17½
tanks, works.....lb. .14½- —
Carbinol (see Carbinol).
Chloride, normal, dms., c.l., works..lb. .20 - —
l.c.l. .....lb. .23 - —
Crotonate, normal, 55-gal. dms., dlvd..lb. .35 - —
5-gal. cns.....lb. .75 - —
1-gal. cns.....lb. 1.00 - —
Ether (see under Ether).
Lactate, dms.....lb. .23½- —
Propionate, dms., dlvd.....lb. .16½- .17
tanks .....lb. .15½- —
Stearate, dms.....lb. .28½- —
Butyric ether, bots.....gal. 6.50 - 6.95
cns., works.....lb. .65 - .70
dms., frt. alld. Met. N. Y..lb. .60 - —
Butane, coml., 16-3a°, tanks, group 3..gal. .02½- .03

# C

Cadmium, bromide, 25-lb. jars, 50 lbs. or more..lb. 1.56 - —
single, jars.....lb. 1.61 - —
5-lb. bots.....lb. 1.75 - —
Cyanide, 25-lb. bots., dlvd...lb. 3.00 - —
25-lb. cks., dlvd.....lb. 3.50 - —
Iodide, 5-lb. bots.....lb. 4.19 - —
25-lb. cans.....lb. 4.05 - —
Lithopone (see Yellow).
Meta', pat., shapes, cs.....lb. .85 - —
ingots or sticks.....lb. .80 - —
Red (see Red).
Selenide (see Red).
Sulphite (see Yellow).
Caffeine, 10,000 lbs. or more, 100 lb. dms..lb. 2.60 - —
25 lb. dms.....lb. 2.63 - —
10 lb. cns.....lb. 2.65 - —
2,000 lbs. or more, 100-lb. dms..lb. 2.65 - —
25 lb. dms.....lb. 2.68 - —
10 lb. cns.....lb. 2.70 - —
1,000 lbs. or more, 100 lb. dms, lb. 2.70 - —
25 lb. dms.....lb. 2.73 - —
10 lb. dms.....lb. 2.75 - —
Caffeine, 100 lbs. or more, 100 lb. dms..lb. 2.80 - —
25 lb. dms.....lb. 2.83 - —
10 lb. cns.....lb. 2.85 - —
less than 100 lbs., 10 lb. cns..lb. 3.15 - —
5 lb. cns.....lb. 3.10 - 3.25
Citrated, bots.....lb. 2.30 - 2.35
Hydrobromide, bots.....lb. 5.29 - 5.37
Calabar beans, bgs.....lb. .25 - .30
Calamus root, peeled, N. F., cs., lb. No prices
bleached, bls.....lb. 1.00 - 1.25
Calcium acetate, bgs., dlvd., 100 lbs. 1.90 - —
Arsenate, bgs., c.l.....lb. .06½- —
l.c.l. .....lb. .06¾- —
Southern cotton states, dms., cl..lb. .06 - —
l.c.l .....lb. .06¼- —
Calcium arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 90 lbs. or over; no frt. or truck allowances for plant or whse. pick-up.
Bromide, 100 lbs., works, frt. equaled..lb. .65 - —
50 lbs., works.....lb. .67 - —
25 lbs., works.....lb. .70 - —
Carbide, dms., c.l., dlvd.100 lbs. 4.75 - —
l.c.l., f.o.b. warehouse..100 lbs. 4.85 -
Carbonate (see Chalk and Whiting).
Chloride, flake, dms., 77-88%, dms., c.l., dlvd..ton.20.50 -35.00
l.c.l., 1 ton or over, dlvd. 100 lbs. 1.68 - 2.35
liquor, basis 40%, tanks, works..ton. 7.50 - —
solid, dom., 73-75%, dms., c.l., dlvd..ton.19.00 -35.00
l.c.l., 1 ton or over, dlvd. 100 lbs. 1.83 - 2.35
Gluconate, USP, gran., 150-lb. bbls..lb. .50 - —
dms. .....lb. .55 - .57
cns. .....lb. .68 - .85
Powd., 2c. per lb. higher.
Glycerophosphate, fib., dms., 1,000-lb. lots..lb. 1.10 - —
smaller lots.....lb. 1.25 - —
cns., 25 lbs.....lb. 1.50 - —
Hypophosphite, cns.....lb. .62 - .67
Iodide, bots., jars.....lb. 4.04 - 4.19
Lactate, USP, bbls., 200 lbs..lb. .23 - —
Mandelate, dense, dms.....lb. 2.15 - 2.80
fluffy, dms.....lb. 2.00 - 2.15
Nitrate, bgs., to frt. mfrs., ex vessel Atlantic or Gulf ports. ton. No prices
Palmitate, bbls.....lb. .22 - .24
Phosphate, dibasic, precip., 38-40% $P_2O_5$, bgs., c.l.f. Atlantic ports, shipt. unit-ton. No prices
tribasic, c.l., bbls., works..lb. .0635- —
l.c.l., bbls.....lb. .0705- —
Resinate, precip., bbls., 1 ton..lb. .13 - —
smaller lots.....lb. .14 - —
Stearate, precip., bbls., ctns., c.l..lb. .20½- —
l.c.l., 1 ton.....lb. .22½- —
Sulphate (see Gypsum).
Sulphide, 70%, CaS, bgs., c.l., works..ton.46.00 - —
80%, CaS, bgs., c.l., wks..ton.51.00 - —
luminous, dom., tins, works, 100 lbs..lb. 1.25 - —
Sulphocarbolate, bbls., 200 lbs.lb. .47 - .48
kgs., 100 lbs.....lb. .50 - —
Calendula flowers, bls.....lb. .70 - .75
Calomel, bbls., fib., dms., kgs., 50 lbs. or more..lb. 2.70 - —
Camphor, natural, powd., cs..lb. .82 - .83
slabs, cs.....lb. .82 - .83
tablets, tins.....lb. .87 - .88
synth., dom., tech., bbls., contract, 2,000 lbs. or more, works..lb. .36 - —
smallr lots, works....lb. .41 - —
USP, or import, gran., powd., bbls., 2,000-lb. lots..lb. .60 - —
1,000-lb. lots.....lb. .61 - —
smaller lots.....lb. .62 - —
tablets, 2,000-lb. lots....lb. .73 - —
1,000-lb. lots.....lb. .74 - —
smaller lots.....lb. .75 - —
Monobromate, bxs., kgs.....lb. 2.00 - 2.05
Canada balsam (see Fir balsam).
Canary seed, Argentine, bgs...lb. .0330- .0350
Morocco, bgs.....lb. .0350- .0380
Turkish, bgs.....lb. .0340- .0360
Canella alba bark, bls.....lb. .45 - .50
Cantharides, Chinese, cs.....lb. 1.50 - 1.60
powd., bxs.....lb. 1.75 - 1.85
Russian, cs.....lb. 2.25 - 2.30
powd., bxs.....lb. 2.50 - 2.55
Capsicum (see Pepper, red).
Caraway, Dutch.....lb. .44 - .45
Russian .....lb. No stocks
Carbazole, 95%, dms., ton lots, works..lb. .70 - —
smaller quantities, works..lb. .80 - —
95%, dms., ton lots, works..lb. .75 - —
smaller quantities, works..lb. .85 - —
Diethyl, dms., works.....lb. .60 - —
small lots, works.....lb. .75 - —
Carbinol, butyl, norm. (see Amyl alcohol, normal).
Dimethylethyl (see Amyl alcohol, tertiary).
Isobutyl (see Alcohol, isoamyl).
Carbon bisulphide, 55-gal. dms., c.l., frt. alld. E. of Miss. R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05¾- —
5-gal. dms., c.l., same basis, lb. .07 - .07½
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls.....lb. .05 - .06
Tetrachloride, Zone 1, 52½-gal. dms., c.l., frt. alld..gal. .66½- —
l.c.l., frt. alld.....gal. .73 - —
5 or 10-gal. dms., c.l., frt. alld..gal. .90 - —
l.c.l., frt. alld.....gal. 1.00 - —
Zone 2, 52½-gal. dms., c.l., frt. alld..gal. .75 - —
l.c.l., frt. alld.....gal. .80 - —
Zone 2, 5 or 10-gal. dms., c.l., frt. alld..gal. .97 - —
l.c.l., frt. alld.....gal. 1.07 - —
Zone 3, 52½-gal. dms., c.l., frt. alld..gal. .87 - —
l.c.l., frt. alld.....gal. .93 - —
5 or 10-gal. dms., c.l., frt. alld..gal. 1.10 - —
l.c.l., frt. alld.....gal. 1.20 - —
Zone 4, 52½-gal. dms., c.l.gal. .83 - —
l.c.l. .....gal. .90 - —
5 or 10-gal. dms., c.l..gal. 1.07 - —
l.c.l. .....gal. 1.17 - —

All prices on carbon tetrachloride are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. cars, L. A. Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. All packages are inclusive and not returnable. Zone 1 includes the following States:—Me., N. H., Vt., Mass., Ct., R. I., N. Y., N. J., Pa., Md., Del., Va., W.Va., N. C., Tenn., O., Ind., Mich., Ill., Wis., Minn., Ia., Mo., also the river towns of Burlington, Ia., and Kansas City, Kan. Zone 2 includes N. D., S. D., Neb., Kan., Okla., Ark., La., Miss., Ala., Ga., S. C. and Fla. Zone 3 includes that portion of Montana east of Billings and the states of Wyoming, Colo., N. M. and Texas. Zone 4 includes Wash., Idaho, Montana, Ore., Cal., Nev., Utah and Arizona.



Cardamom, bleached, cs.....lb. 1.15 - 1.60
decorticated, cs.....lb. .86 - .86
green, bgs.....lb. .65 - .67
Carob bean flour (see Gum, Locust bean).
Carvol, bots.....lb. 4.00 - 4.25
Cascara sagrada bark, bulk....lb. .15 - .16
Case - hardening mixture, 50% lump, dms.. l.c.l..lb. .09 - —
Cassia, dom., 20-30 mesh, bgs., c.l., dlvd..lb. .13 - .14
5 tons, works.....lb. .13½- —
smaller lots, works.....lb. .14 - —
80-100 mesh, bgs., c.l.....lb. .13½- .14½
5 tons, works.....lb. .14 - .15
smaller lots, works.....lb. .15 - —
import, Arrent., 20-30 mesh, bgs., c.l., duty pd..lb. .12½- —
80-100 mesh, bgs., c.l., duty paid..lb. .12½- .12¾
French, 20 mesh, bgs., c.l., duty paid..lb. No prices
New Zealand, 20-30 mesh, c.l., bgs., duty paid..lb. No prices
Cassia, Batavia, No. 1, this quill, bls..lb. .16½- .17
No. 1, regular, bls.....lb. .16¼- .16½
shortstick, bls.....lb. .12¾- .13¼
broken, bls.....lb. .11 - .11½
China, rolls, select, bls.....lb. .11¼- .11½
broken, extra, bls.....lb. .10 - .10½
Saigon, No. 1, 4-10-4, bls....lb. .18¾- .19¼
10-6-2, bls.....lb. .20¼- .20¾
all thin, bls.....lb. .21½- .22
Cassia buds, cs.....lb. .13 - .13½
Cassia fistula, bakts.....lb. .16 - .18
Castile soap, Italian, white, bars, 40-lb. cases..case.14.00 - —
powd., bbls.....lb. .33 - .36
Castoreum, nat., cns.....lb.15.00 -18.00
synth., bots.....lb.19.00 - —
Castor beans, Brazilian, ship't., c&f, N.Y..ton.81.00 - —
Oil (see Oil, castor).
Pomace, dom., 6½% ammon., bgs., c.l., works..ton.15.00 - —
import, bgs., c.i.f. ports, shipment..ton. No prices
Celery seed, French, bgs.....lb. .50 - .52
Indian .....lb. .22½- .23
Celluloid scrap (see Pyroxylin scrap).
Cellulose, acetate, flake, gran., frt. alld..lb. .30 - —
Acetate-butyrate, high (20-40% butyryl content), 100-lb. ctn., 5,000 lbs. and up, frt. alld. lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld....lb. .47 - —
smaller pkgs, works.....lb. .48 - —
low (up to 9.9%), 100-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .41 - —
1,000-4,900 lbs., frt. alld.lb. .42 - —
100-900 lbs., frt. alld....lb. .43 - —
smaller pkgs, works.....lb. .44 - —
medium (10-19.9%), 100-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .42 - —
1,000-4,900 lbs., frt. alld.lb. .44 - —
100-900 lbs., frt. alld....lb. .45 - —
smaller pkgs, works.....lb. .46 - —
Triacetate, flake, frt. alld....lb. .30 - —
Cerium hydrate, dms., works..lb. .60 - —
oxalate, USP, bbls., works..lb. .35 - —
kgs., works.....lb. .37 - —
Chalk, precip., extra light, light, heavy, bgs., 50 lbs., c.l., f.o.b. works..lb. .02¾- —
cks., 250 lbs., c.l., f.o.b. works..lb. .03¼- —
Chamomile flowers, Hungarian, genuine, cs..lb. 1.25 Nom.
Roman, bls.....lb. 2.00 Nom.
Charcoal, softwood, gran., bgs., c.l., dlvd., Ala., Del., Ga., Ky., Md., Miss., N. J., N. Y., N. C., S. C., Tenn., Va., W. Va..ton.35.40 - —
Colo. .....ton.32.00 - —
Conn., Me., Mass., N. H., R. I., Vt..ton.35.80 - —
Ill. (except river point), Minn., Neb., Wis..ton.27.00 - —
Indiana .....ton.31.00 - —
Ill. (river points), Mo., Okla., Tex. (except El Paso), Ia.....ton.25.00 - —
Kansas, El Paso, Tex., ton.26.00 - —
Michigan .....ton.32.80 - —
Ohio .....ton.32.80 - —
Penn. .....ton.34.80 - —
Utah .....ton.36.00 - —
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract, clarif., 25% tan., bbls., c.l., works..lb. .02½- —
l.c.l., bbls., works.....lb. .02¾- —
tanks, works.....lb. .01¾- —
Chillies (see Pepper, red).
China clay, dom., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton. 9.50 - —
l.c.l., works.....ton.10.00 -16.00
bulk, c.l., works...ton. 7.60 - —
200 mesh, bgs., c.l., works..ton.8.50 - —
l.c.l., works.....ton. 9.50 -15.80
wet-grd., silk-bolt, 99.9%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works, ton.12.50 - —
import, white, lump, bulk, c.l., ex dock, Balto., Boston, Norfolk, Phila.....ton.18.00 -25.00
powd., cks., l.c.l., ex whse., ton.45.00 - —
Chloral hydrate, bots., 1,000 lbs., lb. .93 - 1.02
500 lbs.....lb. .96 - 1.05
100 lbs.....lb. .98 - 1.07
25 lbs.....lb. 1.00 - 1.09
1-10 lbs.....lb. 1.05 - 1.12
dms., 1,000 lbs.....lb. .90 - —
500 lbs.....lb. .93 - —
100 lbs.....lb. .95 - —
Chlorinated rubber, standard, c.l., ctns., works..lb. .32 - —
100 lbs., ctns.....lb. .35 - —
smaller lots.....lb. .38 - —

# SOLVAY PRODUCTS

TRADE MARK REG. U. S. PAT. OFF.

## SOLVAY LIQUID CHLORINE

THREE Solvay Chlorine manufacturing centers—Syracuse, New York; Hopewell, Virginia, and Baton Rouge, Louisiana—insure simplified shipments and handling and faster deliveries of high-quality Solvay Liquid Chlorine.

Exacting production methods have placed Solvay Liquid Chlorine in the fore as the standard of quality. It is always full strength . . . always pure when you receive it.

SERVICE — As part of Solvay's customary service procedure, the Solvay Technical Service Department is prepared to give you expert assistance in the problems that arise in the use or handling of Liquid Chlorine. Other Solvay departments, such as its Traffic Department, which assures the most advantageous routing of cars, and Distribution and Warehouse Divisions, are ever seeking out new means to aid customers.

You will find that Solvay's "Big 3" Plant Service will prove of definite benefit to your requirements. It is a service designed to fulfil your needs as an alkali and chlorine user. Your inquiries as to how Solvay Service can be made available to you are cordially invited.

Solvay Liquid Chlorine is shipped in single tank cars of 16 and 30 tons, in multiple unit tank cars of 15 one-ton containers and in cylinders of 100 and 150 lbs.

*As a Liquid Chlorine user you will be interested in the comprehensive Solvay booklet on the handling of Liquid Chlorine. It contains valuable data, including tables that are informative and easy to consult. Write for it today.*

- ✓ SODA ASH
- ✓ CAUSTIC SODA
- ✓ MODIFIED SODAS
- ✓ SPECIAL ALKALIES
- ✓ HEAVY DUTY CLEANSERS
- ✓ NITRITE OF SODA
- ✓ CALCIUM CHLORIDE
- ✓ CAUSTIC POTASH
  Liquid—Flake—Ground—Solid—Lump
- ✓ AMMONIUM CHLORIDE
- ✓ PARA-DICHLOROBENZENE
- ✓ ORTHODICHLOROBENZENE
- ✓ AMMONIUM BICARBONATE
- ✓ POTASSIUM CARBONATE
  Liquid—Granular Hydrated—Dustless Calcined
  47% 83-85% 98-100%

## SOLVAY SALES CORPORATION

*Alkalies and Chemical Products Manufactured by The Solvay Process Company*

40 RECTOR STREET NEW YORK, N. Y.

*BRANCH SALES OFFICES:*

Boston Charlotte Chicago Cincinnati
Cleveland Detroit New Orleans
New York Philadelphia Pittsburgh
St. Louis Syracuse

STANDARD SINCE 1881


### Chlorine—Dibutyl Tartrate

Chlorine, liq., cyls., c.l., dlvd., N. Y..lb. .05¼- —
contracts, dlvd., N. Y...lb. .05¼- —
l.c.l., dlvd., N. Y.....lb. .07¼- —
tanks, single units, works, frt. equald..100 lbs. 1.75 - —
multiple unit, 3 or over, works, frt., equald., 100 lbs. 1.90 - —
2, works, frt. equald., 100 lbs. 2.40 - —
1, works, frt. equald., 100 lbs. 2.90 - —
Chloracetophenone, tins, works.lb. 3.00 - 3.50
Chloroform, tech., 650-lb. dms.lb. .20 - —
100-lb. dms.....lb. .22 - —
50-lb. dms.....lb. .23 - —
USP, 650-lb. dms.....lb. .30 - —
100-lb. dms.....lb. .32 - —
50-lb. dms.....lb. .33 - —
Chloropicrin, com'l, 180-lb. cyls., works..lb. .80 - —
100-lb. cyls., works.....lb. .85 - —
5-25-lb. cyls., works.....lb. 1.00 - 1.15
Chrome acetate, powd., 24%, bbls., dlvd..lb. .13½- —
solut. 8½%, cs., bbls.....lb. .06¾- —
Cake, bulk, c.l., works....ton.16.00 - —
Green (see Green, chrome).
Oxide (see Green, chrome).
Sulphate, pearls, dms., 100 lbs., lb. .40 - —
powd., dms., 100 lbs.....lb. .45 - —
scale, dms., 100 lbs.....lb. .45 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, 5-lb. bot.....lb. 5.00 - —
Cinchona bark, quill, USP, 10 in., medium, cs..lb. .75 - .80
20 in., thick, cs.....lb. .75 - .80
20 in., medium, cs.....lb. .75 - .80
USP, broken quill, red, bgs., lb. .21 - .23
yellow, bgs.....lb. .21 - .23
Cinchonidine, small crys., cns., 100 ozs..oz. .89 - —
Sulphate, N.F., cns.100 ozs..oz. .53 - —

Cinchonidine buyers must pay a surcharge of 7c. per oz. to cover present war risk insurance, higher ocean freight rates and additional expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Cinchonine, small crys., cns., 100 ozs..oz. .62 - —
large cryst., cns.100 ozs..oz. .66 - —
Sulphate, N.F., cns.100 ozs..oz. .42 - —

Cinchonine buyers must pay a surcharge of 7c. per oz., to cover present war risk insurance, higher ocean freight rates and other expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Cinchophen, USP, 25-lb. fib. dms., lb. 3.40 - —
1 and 5-lb. bots.....lb. 3.50 - 3.55
100 lbs., dms.....lb. 3.30 - —
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, f.c.c., cbys.....lb. .85 - .90
Cinnamon, Ceylon, 2 bls.....lb. .15⅝- .16¼
3 bls.....lb. .15½- .16
Citral, bots., cns.....lb. 1.40 - 3.10
Citrine ointment, jars.....lb. .95 - .97
Citronellal, bots., dms.....lb. .75 - .80
Citronellol, bots., dms.....lb. 1.60 - 1.85
Clove, Amboyna, bgs.....lb. .23 - .23½
Madagascar .....lb. .16¼- .16⅜
Zanzibar .....lb. .16 - .16¼
Clover tops, red, bgs.....lb. .35 - .40
dom., bgs.....lb. .33 - .35
Coal tar, coal-gas, crude, bbls., c.l., works..bbl. 7.50 - 7.75
l.c.l., works.....bbl. 8.25 - 8.50
tanks, works.....gal. .07½- .09
refd., bbls., c.l., works....bbl. 8.00 - 8.25
l.c.l., works.....bbl. 8.75 - 9.00
tanks, works.....gal. .08½- .10
water-gas, crude, dms., c.l., works..dm. 7.50 - —
l.c.l., works.....dm. 8.25 - —
refd., dms., c.l., works....dm. 8.00 - —
l.c.l., works.....dm. 8.75 - —
Cobalt acetate, bbls., kgs., dlvd., lb. .80½- —
Carbonate, powd., bgs., works, lb. 1.53 - —
Chloride, kgs., works.....lb. .85 - —
Hydrate, bbls.....lb. 1.98 - —
Linoleate, paste, 5%, dms.....lb. .31 - —
solid, 8½%, bbls.....lb. .33 - —
Oleate, bbls.....lb. .25 Nom.
Oxide, black, kgs.....lb. 1.84 - —
Resinate, fused A, bbls.....lb. .13½- —
1 %, bbls.....lb. .13 - —
2 %, bbls.....lb. .14 - —
3½%, bbls.....lb. .17½- —
precip., dms., dlvd.....lb. .34 - —
Sulphate, dms.....lb. .65 - —
Cocaine, hydrochloride, 100 ozs., cns..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .37 - .38
Teneriffe, silver, bgs.....lb. .38 - .39
Cocoa butter, bulk, c.l., bgs..lb. .13 Nom.
Cocillana bark, bgs.....lb. .25 - .30
Codeine, cns., 100 ozs.....oz.11.70 - —
Hydrochloride, cns., 100 ozs..oz.10.50 - —
Phosphate, cns., 100 oz.....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh, black, root, bls.....lb. .07 - .08
Blue, root, bls.....lb. .07 - .08
Colchiane, bots., cns.....oz.20.00 -25.00
Colchicum seed, bgs.....lb. 2.00 Nom.
Collodion, USP, dms., 325 lbs..lb. .12½- —
cns., 25 lbs.....lb. .16 - —
flexible, USP, dms., 325 lbs..lb. .14½- —
cns., 25 lbs.....lb. .18 - —
Colocynth pulp, bls.....lb. .55 - .56
Colombo root, bls.....lb. .15 - .16
Coltsfoot leaves, bgs.....lb. .35 - .40
Condurango bark, bgs.....lb. .11 - .12
Conium leaves, bls.....lb. .30 - .32
Copaiba balsam, Para, cns.....lb. .25 - .26
S.A., USP, cns.....lb. .27 - .28
Copper acetate, normal, bbls., dlvd..lb. .22 - —
smaller containers, dlvd..lb. .24 - —
Carbonate, 52-54%, bbls.....lb. .16½- —
Chloride, cryst., bbls.....lb. .16 - —
Cyanide, tech., bbls.....lb. .34 Nom.
oxide, bots.....lb. 5.15 - 5.19
Metal, electrolytic.....lb. .12 - —
Nitrate, cryst., bbls.....lb. .16¼- —
Oleate, precip., bbls.....lb. .29 - —
Oxide, black, 79-80%, bbls., tons, works..lb. .18 - —
Red, com'l, 80-88%, kgs., f.o.b. N.Y..lb. .19½- —
Resinate, precip., bbls.....lb. .15 - .16
Sulphate, 99% cryst., bbls., c.l., f.o.b. works100 lbs. 4.75 - —
l.c.l., 16-50 bbls., same basis, 100 lbs. 4.90 - —
6-15 bbls., same basis, 100 lbs. 5.10 - —
1-5 bbls., same basis, 100 lbs. 5.35 - —
monohydrated, dms., c.l., dealers, f.o.b. works.100 lbs. 9.30 - 9.55
l.c.l., dealers.....100 lbs.10.30 -10.55
Copperas, cryst., gran., bgs., c.l., works..ton.18.00 - —
bbls., c.l., works.....ton.20.00 - —
l.c.l., 25 or over, works, 100 lbs. 1.55 - -
1-4, works.....100 lbs. 2.00 - —
bulk, c.l., works.....ton.14.00 - —
Copra, Coast, shipt.....lb. .0145 Nom.
Coriander, bgs.....lb. .07½- .08
bleached, bgs.....lb. .09 - .09½
Corn sugar, tanners', chipped, bgs., c.l., dlvd..100 lbs. 3.39 - —
slabs, bbls., c.l.....100 lbs. 3.31 - —
solid, bbls., c.l.....100 lbs. 3.43 - —
Syrup, 42°, bbls., c.l...100 lbs. 3.42 - —
43°, bbls., c.l.....100 lbs. 3.47 - —
Cornsilk, bls.....lb. .15 - .16
Corrosive sublimate, cryst., dms., 50 lbs. or more..lb. 2.19 - —
gran., powd., dms., 50 lbs. or more..lb. 2.04 - —
Cottonroot bark, bls.....lb. .10 - .11
Cottonseed, hull ash, 33-36% pot-ash, bgs., dlvd., unit-ton. 1.10 - —
meal, 8%, Southeast, mills..ton.30.50 -31.00
Coumarin, 5 lbs., or more, 25-lb. cns..lb. 2.75 - 3.00
5-lb. cns.....lb. 2.85 - 3.10
1-lb. cns.....lb. 3.00 - 3.25
1-oz cns.....lb. 3.35 - 3.60
less than 5 dms., cns.....lb. 4.15 - 4.65
Cramp, bark, genuine, bls.....lb. .23 - .24
so-called, bls.....lb. .06 - .07
Cranesbill root, bls.....lb. .10 - .18
Cream tartar, gran. or powd., bbls., 5,000 lbs., one shipm't. lb. .36¼- —
smaller lots, bbls.....lb. .36¾- —
kgs.....lb. .37¼- —
Creosote, beechwood, bots.....lb. No prices
hardwood, USP, bots.....lb. .45 - .47
Pine, dms.....gal. .28 - —
Carbonate, bots., cbys.....lb. 1.90 - 2.29
Oil, crude, tanks, works....gal. .13½- .14½
Coaltar, solution, tanks, works, gal. .122 - .132
refd., bbls., l.c.l., works.gal. .25 - —
tanks, works.....gal. .18 - .18½
Cresol, USP, dms., c.l., works.lb. .09¾- —
l.c.l., same basis.....lb. .10¼- —
special resin grade, dms., c.l., works..lb. .08¾- —
l.c.l., same basis.....lb. .09¼- —
Crotonaldehyde, 97%, 55 and 110 gal., c.l., works..lb. .11 - —
l.c.l. works.....lb. .12 - —
5 and 10 gal. dms., works..lb. .15 - —
Cube root, powd., 5% rotenone, bbls., f.o.b. N. Y. C....lb. .19 - .21
4% rotenone prices are 3c. per lb less.
Cubeb berries, XX, bgs.....lb. .35 - .40
powd., cs.....lb. .40 - .45
Culver's root, bls.....lb. .16 - .17
Cumin seed, Morocco, bgs.....lb. .20½- .21
Cyprus, bgs.....lb. .20½- .21
Persian, bgs.....lb. .18½- .19
Cutch, Borneo, extract, solid, contract, f.o.b. N. Y., duty paid..lb. .04½- —
Cyanamide, 22% N, pulv., bgs., dlvd., contracts, N..unit-ton. 1.40 - —
Cyanide-chloride, mixture, 45%, gran., dms..lb. .10¾- —
lump, dms.....lb. .09¾- —
75%, gran., dms.....lb. .15 - —
Cyclohexane, 98-100%, dms., dlvd. lb. .17 - —
Cyclohexanol, 98-100%, dms., dlvd..lb. .26 - —
Cyclohexanone, 98-100%, dms., dlvd..lb. .40 - —

## D

Damiana leaves, bls.....lb. .17 - .24
Dandelion root, German, bls...lb. .80 - .85
Decanol, normal, tech., 360 lbs. dms., dlvd..lb. .35 - —
Deertongue leaves, bls.....lb. .12 - .14
Degras common, dom., bbls...lb. .08 - .08½
neutral, dom., bbls.....lb. .13½- .16½
Derris root, powd., 5% rotenone, bbls., f.o.b. N. Y.....lb. .21 - .23
4% rotenone prices are 3c. per lb. less.
Derris, extract, 25% rotenone, bulk, cns..lb. 3.00 - 4.00
Dextrin, British gum, c.l., f.o.b. Chicago..100 lbs. 4.05 - —
l.c.l., f.o.b. Chicago..100 lbs. 4.15 - —
Corn, canary, bgs., c.l., f.o.b. Chicago..100 lbs. 3.80 - —
l.c.l., f.o.b. Chicago..100 lbs. 4.00 - —
white, bgs., c.l., f.o.b. Chicago..100 lbs. 3.75 - —
l.c.l., f.o.b. Chicago..100 lbs. 3.95 - —
Potato, import, bgs.....lb. No stocks
Diacetone (see under Alcohol).
Diacetyl, bots.....lb.10.00 -11.00
Diamyl ether, dms., c.l., works, lb. .085 - —
l.c.l., works.....lb. .092 - —
tanks, works.....lb. .075 - —
Oxalate, dms., l.c.l., works..lb. .30 - —
Phthalate, dms., c.l., dlvd...lb. .21 - —
l.c.l., dlvd.....lb. .21½- —
tanks, dlvd.....lb. .20 - —
Sulphide, dms., l.c.l., works.lb. 1.10 - —
Diamylamine, dms., c.l., works, lb. .47 - —
l.c.l., works.....lb. .48 - .50
tanks, works.....lb. .45 - —
Diamylene, dms., c.l., works..lb. .095 - —
l.c.l., works.....lb. .102 - —
tanks, works.....lb. .085 - —
Diamylnaphthalene, dms., l.c.l., works..lb. .20 - —
Diamylphenol (2, 4), dms., c.l., works..lb. .17 - —
l.c.l. .....lb. .20 - —
Diatomaceous earth, dom., natural, bgs., c.l., f.o.b. Pacific cst..ton.22.00 -25.00
l.c.l. ex whse.....ton.45.00 - —
purified, bgs., c.l., f.o.b. Atlantic seaboard.....ton.35.00 -39.00
l.c.l., ex whse.....ton.85.00 -90.00
chemically pure, bgs., c.l., f.o.b. Atlantic seaboard.lb. .06 - —
l.c.l., ex whse.....lb. .10 - .16
import, bgs., c.l., c.i.f...ton. No prices
Dibutylamine, dms., c.l., works, lb. .50 - —
l.c.l. .....lb. .51 - .53
tanks, works.....lb. .48 - —
Dibutyl ether (see Ether, butyl).
Phthalate, dms., c.l., dlvd...lb. .19 - —
l.c.l., dlvd.....lb. .19½- —
tanks, dlvd.....lb. .18 - —
cns., works.....lb. .23½- .25½
Sebacate, dms., works.....lb. .50 - —
Tartrate, dom., dms.....lb. .50 - —

Dicalcium phosphate (See Calcium phosphate dibasic).

Dichlorethyl ether, dms., c.l., works..lb. .15 - —
l.c.l., works..lb. .16 - —
tanks, works..lb. .14 - —

Dichloropentane, dms., c.l., works, lb. .0221- —
l.c.l. ..lb. .04 - —
tanks ..lb. .025 - —

Diethanolamine, dms., c.l., works, lb. .23½- —
l.c.l., works..lb. .24½- —
tanks, works..lb. .22½- —

Diethylamine, dms., l.c.l., works, lb. .70 - —

Diethylcarbonate, coml., dms..lb. .25 - —
refd., 99%, dms..lb. .35 - —

Carbinol (see Carbinol).

Oxalate, dms., l.c.l., dlvd....lb. .27 - —

Phthalate, dms., c.l., frt. alld, lb. .19 - —
l.c.l. ..lb. .19½- —
tanks ..lb. .18 - —

Sulphate, dms., c.l., works..lb. .18 - —
l.c.l., works..lb. .14 - —
tanks ..lb. .12 - —

Diethylaniliin, dms..lb. .40 - —

Diethyleneglycol, dms., c.l., works, lb. .14½- —
l.c.l., works..lb. .15½- —

Monobutylether, dms., works..lb. .22½- .24½

Monoethylether, dms., c.l., works..lb. .14½- —
l.c.l., works..lb. .15½- —
tanks, works..lb. .13½- —

Digitalis leaves, dms..lb. .35 - .40

Diglycol, laurate, c.l..lb. .16 - —
Oleate, light, bbls., c.l..lb. .17 - —
Stearate, bbls., c.l..lb. .22 - —

Di-isobutyl ketone, dms., works..lb. .19 - —

Dillseed, recleaned, bgs..lb. .12¾- .13¼

Dimethyl phthalate, dms., c.l., dlvd..lb. .18½- —
l.c.l., dlvd..lb. .19 - —
tanks, dlvd..lb. .17½- —

Dimethylaniliin, dms., c.l..lb. .23 - —
l.c.l., dms..lb. .24 - —

Dimethylamine, dms., c.l., dlvd.lb. 1.00 - —
l.c.l., dlvd..lb. 1.05 - —

Dimethylethyl carbinol (see Carbinol).

Dinitrobenzene, bbls., 80° min..lb. .18 - —

Dinitrochlorobenzene, dms..lb. .14 - —

Dinitronaphthalene, kgs..lb. .35 - .38

Dinitrophenol, bbls..lb. .22 - —

Dinitrotoluene, dms..lb. .15½- —
oily, dms..lb. .09 - —

Diorthotoluolguanidin, dms., 2,000 lbs. or over, dlvd..lb. .44 - —
600-1,950 lbs., dlvd..lb. .46 - —
150-450 lbs., dlvd..lb. .47 - —

Dioxan, dms., c.l., frt. alld..lb. .20 - —
l.c.l., same basis..lb. .21 - —
tanks, same basis..lb. .19 - —

Dip oil (see Tar acid oil).

Dipentene, dms..gal. .47 - .50
tanks ..gal. .41 - —
dest., dist., dms..gal. .45 - .48
tanks ..gal. .38 - —

Diphenyl, bbls., c.l., works..lb. .15 - —
l.c.l., works..lb. .16 - .20
Oxide, perfume grade, cns..lb. .50 - .55

Diphenylamine, bbls..lb. .25 - —

Diphenylguanidin, dms., 2,000 lbs., or over, dlvd..lb. .35 - —
600-1,950 lbs., dlvd..lb. .36 - —
150-450 lbs., dlvd..lb. .37 - —

Diphenylmethane, bots..lb. 1.40 - 3.00

Dimethylethyl carbinol (see Carbinol).

Divi-divi, Columbian..ton.33.00 - —
Venezuelan ..ton.35.00 - —

Doggrass root, cut, N.F., bls..lb. .60 - .65

Dogwood bark, Jamaica, bls.lb.lb. .08 - .10

Devers powder, USP, cns..lb. 2.75 - 2.80

Dragon's blood, mass, cs..lb. .65 - .85
reeds, cs..lb. 1.00 - 1.05

Dyes, coaltar (certified colors) for foods, drugs and cosmetics:—

Blue, FD&C blue, No. 1 cns..lb.13.50 - —
FD&C blue, No. 2, cns....lb.13.50 - —
FD&C green, No. 2, cns....lb.17.50 - —
FD&C green, No. 3, cns....lb.27.50 - —

Dyes, coaltar (certified colors) for foods, drugs and cosmetics:—

Green, FD&C green, No. 1, cns. lb.13.50 - —

Orange, FD&C orange, No. 1, cns..lb. 2.90 - —
FD&C orange, No. 2, cns..lb. 3.65 - —

Red, FD&C red, No. 1, cns..lb. 6.00 - —
FD&C red, No. 2, cns..lb. 3.15 - —
FD&C red, No. 3, cns..lb.17.50 - —
FD&C red, No. 4, cns..lb. 5.75 - —
FD&C red, No. 32, cns..lb. 4.15 - —

Yellow, FD&C yellow, No. 1, cns..lb. 8.50 - —
FD&C yellow, No. 3, cns...lb. 2.65 - —
FD&C yellow, No. 4, cns...lb. 2.65 - —
FD&C yellow, No. 5, cns...lb. 3.15 - —
FD&C yellow, No. 6, cns...lb. 3.15 - —

Dyes, coaltar (certified colors), for drugs and cosmetics:—

Black, D&C black, No. 1....lb. 8.35 - —
Blue, D&C blue, No. 6.....lb.13.50 - —
Brown, D&C brown, No. 1, cns. lb.12.35 - —
Green, D&C green, No. 5, cns. lb.12.35 - —
D&C green, No. 6, cns.....lb.12.35 - —
Orange, D&C orange, No. 3, cns..lb. 8.35 - —
D&C orange, No. 4, cns....lb.15.35 - —
D&C orange, No. 10, cns...lb.15.85 - —
D&C orange, No. 11, cns...lb.17.35 - —
Red, D&C red, No. 5.....lb. 6.00 - —
D&C red, No. 17.....lb. 8.35 - —
D&C red, No. 18.....lb.13.35 - —
D&C red, No. 19, cns.....lb.15.35 - —
D&C red, No. 22, cns.....lb. 8.35 - —
D&C red, No. 33.....lb.13.35 - —
D&C red, No. 37, cns.....lb.12.35 - —
Yellow, D&C yellow, No. 7, cns. lb. 8.35 - —
D&C yellow, No. 3, cns....lb. 8.35 - —
D&C yellow, No. 11.....lb.10.35 - —

Dyes, coaltar (certified colors), for external use drugs and cosmetics:—

Blue, Ext.D&C blue, No. 1, cns. lb.12.35 - —
Green, Ext.D&C green, No. 1, cns..lb.12.35 - —
Red, Ext.D&C red, No. 1, cns..lb.10.35 - —
Ext.D&C red, No. 3.....lb.21.85 - —
Ext.D&C red, No. 6.....lb. 7.85 - —
Ext.D&C red, No. 10, cns..lb.12.35 - —
Ext.D&C red, No. 13, cns..lb.12.35 - —
Yellow, Ext.D&C yellow, No. 1, cns..lb. 8.35 - —

Dyes, coaltar, for general uses (numbers are those of Colour Index scale):—

36 Chrome yellow 2G....lb. .65 - .75
40 Chrome yellow R.....lb. .50 - 1.00
53 Victoria violet.....lb. .80 - 1.00
165 Lake red C.....lb. .70 - .80
170 Fast red A.....lb. .56 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R, paste....lb. .85 - .90
189 Lake red R, powd....lb. 3.00 - 3.10
Sulphur tan.....lb. .30 - .50
202 Chrome blue black U.lb. .32 - .40
204 Chrome black A.....lb. 1.75 - 2.00
208 Fast red blue R.....lb. .75 - 2.00
216 Chrome red B.....lb. 1.75 - 2.00
262 Cloth red 2B.....lb. .60 - .80
286 Fast cyanin 5R.....lb. .90 - 1.00
299 Chrome black F.....lb. .60 - .65
307 Fast cyanin black B.lb. .60 - .85
326 Direct cast scarlet....lb. 2.00 - 2.25
304 Paper yellow.....lb. .83 - .90
365 Chrysophenin G.....lb. .58 - .70
394 Direct violet N.....lb. 1.25 - 1.35
382 Direct scarlet B.....lb. 1.50 - 1.75
387 Direct violet B.....lb. 1.00 - 1.30
401 Developed black BHN, lb. .45 - .60
406 Direct blue 2B.....lb. .25 - .30
415 Direct orange R.....lb. .60 - .70
419 Direct fast red F.....lb. .75 - .85
420 Direct brown M.....lb. 1.00 - 1.10
448 Benzo purpurin 4B...lb. .40 - .42
495 Benzo purpurin 10B...lb. .40 - .50
502 Direct azurin G.....lb. .75 - .80
512 Direct blue RD.....lb. .80 - 1.00
518 Direct pure blue 6B..lb. 1.10 - 1.25
520 Direct pure blue.....lb. .50 - 1.00
529 Direct fast black, FF.lb. .55 - 1.00
581 Direct black EW.....lb. .25 - .50
582 Direct black RX.....lb. .35 - .45
593 Direct green B.....lb. .75 - .80
594 Direct green G.....lb. 1.00 - 1.05
596 Direct brown 3GO....lb. .85 - 1.00
620 Direct yellow R.....lb. 1.25 - 1.50
698 Acid violet.....lb. 1.00 - 3.00
812 Primulin .....lb. .50 - .52
814 Direct fast yellow....lb. 2.00 - 2.25
845 Nigrosin (water soluble), lb. .35 - .50
1177 Indigo, 20 p.c. paste..lb. .15 - .18
Benzo fast black L...lb. .90 - 1.00
Sulphur black.....lb. .20 - .25
Sulphur blue.....lb. .40 - 1.00
Sulphur brown.....lb. .25 - .50
Sulphur maroon.....lb. .40 - —
Sulphur olive.....lb. .25 - .54
Sulphur yellow.....lb. .30 - .50
Zambesi black.....lb. .75 - .80

Dyes, coaltar, for stains, oil-soluble (prices in barrels of 100 lbs.; lots of 25 pounds to a barrel are 3c. per lb. higher; f.o.b. sellers' works or warehouse).

Black:—
865 Nigrosin derivatives..lb. .38 - .62

Blue:—
1075 Alizarin astrol base...lb.15.00 - —
1078 Alizarin cyanin green base..lb. 6.00 - —

Browns:—
Brown .....lb. 1.15 - —

Green:—
1078 Alizarin cyanin green.lb. 5.00 - —
Green .....lb. .75 - —

Orange:—
24 Sudan I.....lb. .75 - —
Orange, red shade....lb. .75 - —

Red:—
75 Sudan II.....lb. 1.05 - —
258 Sudan IV.....lb. .95 - —
749 Rhodamine B (oil pink), lb. 2.50 - —
1090 Anthraquinone violet base..lb. 6.00 - —
680 Oil violet.....lb. .50 - —

Yellow:—
15 Amidoazobenzene yellow..lb. .90 - —
17 Amidoazotoluene yellow, lb. .75 - —
61 Yellow OB.....lb. 1.40 - —

Spirit-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher; f.o.b. sellers' works or warehouse).

Black:—
864 Nigrosin .....lb. .38 - .44

Blue:—
860 Indulin .....lb. .60 - .70

Brown:—
831 Bismarck brown.....lb. 1.50 - —

Green.—
637 Malachite green base..lb. 2.00 - —

Orange:—
20 Chrysoldin G.....lb. .95 - —
21 Chrysoldin R.....lb. .95 - —

Red:—
677 Fuchsin, magenta base, lb. 7.25 - —
749 Rhodamine B.....lb. 4.75 - —

Yellow:—
67 Amidoazotoluene yellow, lb. .75 - —
655 Auramine .....lb. 2.00 - —
800 Chinolin yellow SS....lb. 2.00 - —

Violet:—
680 Methyl violet base....lb. .85 - —

Dyes, coaltar, water-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher; f.o.b. sellers' works or warehouse).

Black:—
246 Naphthol blue black S.lb. .50 - —
873 Methylene gray.....lb. 1.50 - —

Blue:—
714 Patent blue A.....lb. 1.45 - —
729 Victoria blue B.....lb. 2.00 - —
861 Indulin .....lb. .67 - —
900 New blue R.....lb. 1.30 - —
922 Methylene blue.....lb. 1.00 - —
1054 Alizarin saphirol B....lb. 1.90 - —
1180 Indigotin IA.....lb. .85 - —

Brown:—
224 Resorcin brown Y.....lb. .65 - —
235 Resorcin dark brown R, lb. .66 - —
231 Bismarck brown G....lb. .40 - .52
582 Bismarck brown R....lb. .50 - .62
798 Phosphin .....lb. 4.65 - —

Green:—
5 Naphthol green B.....lb. 1.00 - —
657 Malachite green.....lb. 1.35 - —
662 Brilliant green.....lb. 2.00 - —
666 Guinea green B.....lb. 1.15 - —
737 Wool green S.....lb. .58 - —
924 Methylene green B....lb. 1.55 - —
1078 Alizarin cyanin green, lb. 2.35 - —

Orange:—
10 Chrysoldin G.....lb. .40 - —
21 Chrysoldin R.....lb. .37 - —
27 Orange G.....lb. .50 - —
151 Orange Y.....lb. .30 - —
161 Orange R.....lb. .34 - —
31 Amidonaphthol red G..lb. .42 - —
37 Amidonaphthol red 6B. lb. .62 - —
79 Popceau R.....lb. .45 - —

Dyes, coaltar, for general uses (numbers are those of Colour Index scale):—

88 Fast red B.....lb. 1.05 - —
176 Fast red A.....lb. .54 - —
179 Azorubin .....lb. .60 - .62
183 Crocein scarlet 3BX...lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
252 Brilliant crosein M....lb. .68 - —
677 Fuchsin .....lb. 2.10 - —
749 Rhodamine B.....lb. 3.50 - —
752 Rhodamine 6G.....lb. 4.50 - —
768 Eosin G.....lb. 1.50 - —
841 Safranin .....lb. 1.45 - —

Violet:—
680 Methyl violet B.....lb. .75 - —
681 Crystal violet C.....lb. 1.75 - —
695 Acid violet 4BN.....lb. .88 - —

Yellow:—
10 Naphthol yellow S....lb. .88 - —
158 Metanil yellow.....lb. .55 - —
638 Fast light yellow.....lb. 1.25 - —
639 Xylene light yellow...lb. 1.15 - —
640 Tartrazin .....lb. .90 - —
655 Auramine .....lb. 1.27 - —

Dyes, natural (see name of article).

# E

Echinacea root, bls..lb. .18 - .19

Egg albumen (see Albumen).
yolk, dom., bbls..lb. .59 - .61
imported .....lb. .54 - .57

Elder flowers, bright, bls..lb. .55 - .60

Elecampane root, bls..lb. .10 - .11

Elm bark, grinding, bls..lb. .11 - .12
powd., bbls., bxs..lb. .19 - .20
select, bndls..lb. .19 - .21

Emetine hydrochloride, bots...oz.24.00 -28.00

Ephedra, bls..lb. .12 - .13

Ephedrine, tins, 1,000 oz.....oz. .85 - —
tins, 100 ozs.....oz. .95 - —
Hydrochloride, tins, 1,000-oz. lots..oz. .65 - —
tins, 100-oz. lots.....oz. .75 - —
Sulphate, cryst., tins, 1,000-oz. lots..oz. .65 - —
tins, 100-oz. lots.....oz. .75 - —

Epsom salt, tech., bgs....100 lbs. 1.80 - —
bbls. .....100 lbs. 1.90 - —

USP, cryst., dom., bgs., c.l., 100 lbs. 2.00 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.25 - —
smaller lots.....100 lbs. 2.50 - —
bbls., c.l.....100 lbs. 2.10 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.35 - —
smaller lots.....100 lbs. 2.60 - —
kgs., c.l.....100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.60 - —
smaller lots.....100 lbs. 2.85 - —
dried, bgs., l.c.l.....lb. .08 - .09

Ergot, USP, cns., dms.....lb. 1.70 - 1.75

Escrine, bots.....oz.42.00 - —

Salicylate, bots.....oz.36.00 - —

Sulphate, bots.....oz.36.00 - —

Ether, acetic (see Ethyl acetate).
Butyl, l.c.l., dlvd.....lb. .25 - —
Ethyl (see Ether, sulphuric).
Nitrous, conc., bots., 100 lbs., lb. .68 - —
Sulphuric, conc., dms., 120 lbs., lb. .09 - —
cns., 27 lbs.....lb. .14 - —
synth., dms., c.l., works....lb. .08 - —
l.c.l., works.....lb. .09 - —
USP, anesthesia, dms., 27 lbs., lb. .26 - —
USP, 1880, dms.....lb. .39 - .40
washed, dms.....lb. .37 - .38

Ethyl acetate, 85-90%, dms., c.l., frt. alld..lb. .07½- —
l.c.l., frt. alld.....lb. .08 - —
tanks, frt. alld.....lb. .06½- —
95-98%, dms., c.l., frt. alld.lb. .07¾- —
l.c.l., frt. alld.....lb. .08¼- —
tanks, frt. alld.....lb. .06¾- —
N.F., 460-lb. dms.....lb. .10 - —
cns., 35 lbs.....lb. .14½- —

Acetoacetate, dms., c.l., wks.lb. .27½- —
l.c.l., dms., works.....lb. .28 - —

Bromide, tech., dms.....lb. .50 - .55

caproate, cns.....lb. 1.00 - —

Chloride, dms.....lb. .18 - .20

Cinnamate, cns.....lb. 3.20 - 4.00

Crotonate, 55-gal. dms., dlvd., lb. .35 - —
1-gal. cns.....lb. 1.00 - —
5 and 10-gal. dms., dlvd....lb. .75 - —

Formate, cns., dms.....lb. .25 - .26

Iodide, bots.....lb. 3.50 - 3.60

Lactate, 55-gal. dms., works..lb. .33½- —
5-gal. dms., works.....lb. .37½- .39½

Oxalate, dms., frt. alld.....lb. .25 - —

Silicate, l.c.l., dms., works..lb. .77 - —

Vanillin, 25-lb. lots, cns.....lb. 6.00 - —
5-lb. lots, cns.....lb. 6.05 - —
1-lb. lots, cns.....lb. 6.15 - —

Ethylcellulose, contracts, bgs., c.l., frt. alld..lb. .45 - —
5,000 lbs. or more, frt. alld., lb. .47 - —
500 lbs. or more, frt. alld., lb. .48 - —
100 to 499 lbs., frt. alld..lb. .50 - —
smaller lots, works.....lb. .55 - —

Ethylene, dichloride, dms., c.l., works, E. of Rockies, frt. alld..lb. .0595- —
West of Rockies, same basis..lb. .0644- —
l.c.l., works, E. of Rockies, frt. alld..lb. .0694- —
West of Rockies, same basis..lb. .0743- —

Ethyleneglycol, dms., c.l.....lb. .14½- —
l.c.l. .....lb. .15½- .18¼
tanks .....lb. .13½- —

Monobutylether, dms., c.l., works, lb. .16¼- —
l.c.l., works.....lb. .17½- .20¼

Ethyleneglycol, monobutylether, tanks, works.....lb. .15¼- —

Monoethylether, dms., c.l., works..lb. .14½- —
l.c.l., works.....lb. .15½- .18½
tanks, works.....lb. .13½- —

Monoethylether, acetate, dms., c.l., works..lb. .11½- —
l.c.l., dms.....lb. .12½- .15½
tanks, works.....lb. .10½- —

Monomethylether, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —

Ethylidenanilin, dms.....lb. .45 - .47½

Eucalyptol, cns., dms.....lb. .78 - .80

Eucalyptus leaves, bls.....lb. .11 - .12

Eugenol, cns., dms.....lb. 1.75 - 2.00

Euphorbia, bls.....lb. .08 - .09

# F

Feldspar, enamel, 100 mesh, bulk, works..ton.14.00 -17.50
l.c.l., minimum 2 tons..ton.17.00 -20.50
glass, 20 mesh, bulk, works.ton. 9.75 -13.25
l.c.l., minimum 2 tons..ton.12.75 -16.25
pottery, bulk, Md., works...ton.17.00 -19.00
N. C., works.....ton.17.00 -19.00
l.c.l., minimum 2 tons.ton.20.00 -22.00

## Dicalcium Phosphate—Glue

Fennel seed, Argentine, bgs...lb. .16 - .16½
Indian, bgs.....lb. .13½- .14
French, bgs.....lb. .35 Nom.
German, large, bgs.....lb. .32 Nom.
Roumanian, bgs.....lb. .14 - 14½
Fenugreek seed, bgs.....lb. .05½- .06
Ferric, sulphate, anhyd., c.l., works..ton.35.00 - —
l.c.l. .....ton.40.00 - —
Film scrap, colors, dark, cs., 1,000 lbs. or over, works..lb. .12 - —
smaller lots, works....lb. .13 - —
light, cs., 1,000 lbs. or over, works...lb. .13 - —
smaller lots, works...lb. .15 - —
water white, cs., 1,000 lbs. or over, works..lb. .14 - —
smaller lots, works....lb. .15 - —
Fir balsam, Canada, cns.....gal.16.00 -16.50
Oregon, bbls.....gal. 1.10 - 1.15
Fish berries, bgs.....lb. .26 - .27
Fish scrap, menhaden, dried, 11-12% ammon., 15% bone phos., bulk, Chesapeake factories, contracts, futures...unit-ton. 3.25 Nom.
meal, bgs., f.o.b. Balto....ton.54.00 Nom.
6-7% ammon., 8% phosphor. acid, bulk, So. Atlantic factories, contracts....unit-ton. 2.50 & .50
sardine, meal, Japanese, 11½% ammon., bgs., c.i.f. ports, Dec. shipt..ton. No prices
spot..ton. No prices
Flake white, dom., bbls.....lb. .08¾- —
kegs .....lb. .10¾- —
Flaxseed, French, black, bgs...lb. .55 - .60
Indian, blonde, bgs.....lb. .09 - .10
Fluorspar, dom., No. 1 ground, bulk, 95-98%, f.o.b. mines, net ton.29.00 - —
washed gravel, 85.5 f.o.b. Ky. and Ill.-Ky. mines.net ton.20.00 - —
No. 2, lump, 85.5 f.o.b. Ky. and Ill. mines..net ton.20.00 - —
imported, 85.5, duty paid, short ton. No prices
Formaldehyde, bbls., c.l., works, lb. .0550- —
l.c.l., works.....lb. .06 - —
dms., c.l., works.....lb. .0515- —
l.c.l., works.....lb. .0565- —
tanks, works.....lb. .04 - —
Fringetree bark, bls.....lb. .14 - .15
Fuller's earth, dom., bgs., c.l., f.o.b. Fla., Ga. mines...ton.15.00 - —
import, bgs., c.l., ex dock.ton. No prices
l.c.l., ex whse.....ton. No prices
Furfural, ref., dms., c.l., works, lb. .15 - —
l.c.l., works.....lb. .17½- .23
tech., dms., contracts, 150,000 lbs..lb. .10 - —
c.l., works.....lb. .12½- —
l.c.l., works.....lb. .15 - .20
tanks, works.....lb. .09 - —
Fusel oil, refd., dms. incl., dlvd., lb. .16 - .17½
Fustic extract, cryst., bbls.....lb. .24 - .25
liquid, bbls.....lb. .10½- .14
solid, dms.....lb. .19 - .21

# G

G salt, bbls.....lb. .45 - —
Galangal root, bls.....lb. .11 - .12
Gambier, common, cases.....lb. .06½- .07
plantation, cases.....lb. .10 - .10½
Cubes, Singapore, cases....lb. .08¼- .08¾
extract, bbls.....lb. .09½- .12
Gasoline at refinery:—
Bayonne, US motor, below 65 octane, tanks..gal. .05 - .05¾
65 octane and above, tanks, gal. .06 - .06½
California (f.o.b. San Francisco), regular, trucks, tax incl..gal. .13½- —
Gulf Coast, US Motor, bulk, gal. .05¼- —
60-62, 390 e.p., bulk, export, gal. .05¼- —
63-67, 375 e.p., bulk, export, gal. .05½- —
70-72, 400 e.p., bulk, export, gal. .06 - —
Louisiana-Arkansas, US motor, 62 octane, tanks..gal. .04¼- .04¾
63-66 octane, tanks....gal. .04¼- .04½
67-69 octane, tanks....gal. .04½- .04¾
72-74 octane, tanks....gal. .04¾- .05
Oklahoma-Texas, US motor, 62 octane and below, tanks.gal. .03½- .03¾
third grade, tanks.....gal. .03½- .03¾
63-66 octane, tanks....gal. .03¾- .04½
67-69 octane, tanks....gal. .03¾- .04
70-72 octane, tanks....gal. .04¼- .04½
natural, 18-55, tanks.....gal. .02¾- .02¾
26-70, tanks.....gal. .02 - .02¼
Gelatine, silver, cs.....lb. .60 - .67
Gelsemium root, bls.....lb. .14 - .15
Gentian root, bls.....lb. .27 - .28
grd., bbls., bxs.....lb. .31 - .32
powd., bbls., bxs.....lb. .32 - .33
Geraniol, cns., dms.....lb. .60 - 3.00
Ginger, African, No. 1, bgs..lb. .06½- .07
Cochin, lemon, bgs.....lb. .10 - .10½
Jamaica, bold, bgs.....lb. .12½ Nom.
medium, bgs.....lb. .11 Nom.
grinding, bright, bgs.....lb. .09½ Nom.
Japanese, bgs.....lb. No stocks
Ginseng root, wild Southern, cs. lb.12.00 -13.00
Glauber's salt, anhyd. (see Soda Sulphate).
cryst., dom., bgs., bbls., c.l., works..100 lbs. .95 - 1.15
5 tons or over, works, 100 lbs. 1.05 - 1.25
less than 5 tons, works, 100 lbs. 1.15 - 1.35
import, bgs.....100 lbs. No price
Glue, bone, calcimine, type, 24 millipoise, 26 jelly-grams, bgs., c.l., dlvd..lb. .12½- —
l.c.l., dlvd.....lb. .14 - —
36/58 bgs., c.l., dlvd.....lb. .13 - —
l.c.l., dlvd.....lb. .13½- —
58/82, bgs., c.l., dlvd.....lb. .14½- —
l.c.l., dlvd.....lb. .15 - —
82/108 millipoise, bgs., c.l., dlvd..lb. .15 - —
l.c.l., dlvd.....lb. .15½- —
Hide, calcimine, type, 58 millipoise, 126 jellygrams, bgs., c.l., dlvd., East Middlewest..lb. .15 - —
l.c.l., same basis.....lb. .15½- —
60/164, bgs., c.l., same basis, lb. .16½- —
l.c.l., same basis.....lb. .17 - —
67/122, bgs., c.l., same basis, lb. .17½- —
l.c.l., same basis.....lb. .18 - —
75/222, bgs., c.l., same basis..lb. .20½- —
l.c.l., same basis.....lb. .21½- —
88/251, bgs., c.l., same basis, lb. .21½- —
l.c.l., same basis.....lb. .22½- —
92/283, bgs., c.l., same basis, lb. .22½- —
l.c.l., same basis.....lb. .23½- —

## Glue—Juniper Berries

Glue, hide, 102/315, bgs., c.l., same basis..lb. .23½- —
l.c.l., same basis.....lb. .24 - —
113/347, bgs., c.l., same basis..lb. .24 - —
125/379, bgs., c.l., same basis..lb. .25 - —
l.c.l., same basis.....lb. .26 - —
Glue prices for barrel packing, ½c. lb. higher; grinding charge, 20-40 mesh, ½c. lb.; 60 mesh, 1c. lb.

Glycerin, CP, cns., l.c.l.....lb. .14½- .15
dms., c.l., dlvd.....lb. .12½- —
l.c.l., dlvd.....lb. .13 - —
tanks, dlvd.....lb. .12¼- —
dynamite, dms.....lb. Nominal
high gravity, dms., c.l., dlvd.lb. .12 - —
l.c.l., dlvd.....lb. .12¼- —
tanks, dlvd.....lb. .11¾- —
saponification, basis 88%, for industrial users, special colors, dms., returnable, c.l., dlvd.lb. .09½- —
l.c.l., same basis....lb. .10½- —
tanks.....lb. .08½- —
for refiners, dms., returnable, tanks, dlvd..lb. .09¼- .09¾
soaplye, basis 50%, dms., tanks, returnable, dlvd..lb. .07½- .07¾
Glycme, medicinal, bbls., tins..lb. 1.70 - 2.00
Glycol boriborate, dms.....lb. .22 - —
Phthalate, dms.....lb. .38 - —
Stearate, dms.....lb. .26 - —
Gold, U.S. purchase price.....oz.35.00 - —
Chloride, acid brown, bots...oz.20.75 -21.00
yellow, bots.....oz.18.75 -19.00
Gold-soda chloride, photo., bots., oz.13.00 - —
USP IX, bots.....oz.14.50 -14.75
Gold of pleasure, seed, bgs....lb. .16 - .16½
Goldenseal, root, bls.....lb. 2.75 - 2.85
powd., bxs.....lb. 3.05 - 3.15
Grains of paradise, bgs.....lb. .46 - .48
Graphite, flake (cryst.), 90%, 325 mesh, 50% graphitic carbon, bgs., c.l., works..lb. .06 - —
bbls., c.l., works.....lb. .06¼- —
l.c.l., works.....lb. .06½- —
amorph., powd., 90%, 325 mesh, 65% graphite carbon, bgs., c.l., works..lb. .02½- —
bbls., c.l., works....lb. .02¾- —
l.c.l., works.....lb. .03¼- —
80% graphitic, carbon, bgs., c.l., works..lb. .03½- —
bbls., c.l., works.....lb. .03¾- —
l.c.l., works.....lb. .04¼- —
Grease, house, loose.....lb. .04¾ Nom.
white .....lb. .04¾ Nom.
yellow .....lb. .04¾ Nom.
Wool (see Adeps lanae and Degras).
Green, chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. river, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .21 - —
6-10%, bbls., same basis.lb. .22 - —
11-15%, bbls., same basis.lb. .23 - —
16-20%, bbls., same basis.lb. .23½- —
21-25%, bbls., same basis.lb. .24 - —
26-30%, bbls., same basis.lb. .24½- —
31-35%, bbls., same basis.lb. .25½- —
36-40%, bbls., same basis.lb. .27 - —
41-45%, bbls., same basis.lb. .28½- —
46-50%, bbls., same basis.lb. .30 - —
Green, chrome, prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.). Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.). Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, ½c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
reduced, CP, color content up to 5%, same basis..lb. .06 - —
6-10%, bbls., same basis, lb. .06¾- —
11-15%, bbls., same basis, lb. .07¼- —
14-16%, bbls., same basis, lb. .07½- —
17-19%, bbls., same basis, lb. .07¾- —
20-21%, bbls., same basis, lb. .08 - —
22-23%, bbls., same basis, lb. .08¼- —
24-25%, bbls., same basis, lb. .08½- —
26-27%, bbls., same basis, lb. .08¾- —
28-29%, bbls., same basis, lb. .09¼- —
30-31%, bbls., same basis, lb. .10 - —
32-33%, bbls., same basis, lb. .11¼- —
34-35%, bbls., same basis, lb. .12¼- —
36-40%, bbls., same basis, lb. .14½- —
41-45%, bbls., same basis, lb. .16¾- —
46-50%, bbls., same basis, lb. .16¾- —
51-55%, bbls., same basis, lb. .17½- —
56-60%, bbls., same basis, lb. .17¾- —
61-65%, bbls., same basis, lb. .18¼- —
66-70%, bbls., same basis, lb. .19¼- —
71-75%, bbls., same basis, lb. .20¼- —
Oxide, dom., pure, bbls.....lb. .25 - —
ceramic, light shades, bbls., c.l., works..lb. .25 - —
l.c.l., works.....lb. .30 - —
standard grade, bbls., works..lb. .21 - .22
Tetrahydroxide, bbls.....lb. .38 - —
Paris (see P).
Tungstated, brilliant, kgs....lb. 3.50 - —
emerald, kgs.....lb. 2.25 - —
Verdigris (see V).
Green dyes are listed under Dyes.
Grindelia robusta, bls.....lb. .00 - .10
Guaiac resin, cs.....lb. .30 - .35
strained, cs.....lb. .80 - .85
Wood, bls.....lb. .04 - .05
Guaiacol, liq., dms.....lb. 1.65 - 1.67
Carbonate, fib. dms., 25 lbs...lb. 2.40 - 2.74
Guarana powd., cs.....lb. 1.20 - 1.25
Gum, aloe (see A).
Ammoniac, tears, cs.....lb. .85 - .90
Arabic, amber, sorts, cleaned, bgs..lb. .14 - .15
white, sorts, 1, bgs.....lb. .35 - .36
powd., bbls.....lb. .18 - .20
Asafetida (see A).
Asphaltum (see A).
Benzoin, Siam, cs.....lb. 1.65 - 1.75
Sumatra, cs.....lb. .19 - .20
Camphor (see C)
Chicle, prime, 33% moisture, bgs., ton lots..lb. No prices
Gum, copal, Congo, 1, water white, transparent, bgs., c.l., ex dock or ex whse., N. Y. or San Fran..lb. .49½- —
Gum, copal, dammar, elemi, kauri, mastic, sandarac, and yacca gums prices on 30,000 lbs. min. apply to assorted lots of gums as well as one grading; l.c.l. prices are ½c. higher for 10 bgs. or over; ½c. higher for 1-9 bags.
Copal, Congo, 2, water white, bgs., c.l., same basis.lb. .29½- —
3, selected pale straw bold, bgs., c.l., same basis.lb. .24½- —
4, pale bold straw, bgs., c.l., same basis..lb. .24 - —
5, pale straw bold, bgs., c.l., same basis..lb. .22½- —
6, pale amber bold, bgs., c.l., same basis..lb. .21½- —
7, pale straw bold, bgs., c.l., same basis..lb. .17 - —
8, light amber bold, bgs., c.l., same basis..lb. .17 - —
9, medium light amber bold, bgs., c.l., same basis.lb. .13¾- —
10, rescraped hard amber, bold, bgs., c.l., same basis..lb. .13¾- —
11, hard dark amber bold, bgs., c.l., same basis.lb. .12¾- —
12, selected bold sorts, bgs., c.l., same basis..lb. .11¾- —
13, dark sorts bold, bgs., c.l., same basis..lb. .09¼- —
14, selected, fully scraped, ivory, bgs., c.l., same basis..lb. .23¾- —
15, ordinary ivory sorts, bgs., c.l., same basis..lb. .10¾- —
16, inferior ivory sorts, bgs., c.l., same basis..lb. .09¼- —
17, pale, fingers, bgs., c.l., same basis..lb. .18¾- —
18, pale straw nubs, bgs., c.l., same basis..lb. .19¼- —
19, pale straw nubs, bgs., c.l., same basis..lb. .18¾- —
20, hard dark amber nubs, bgs., c.l., same basis..lb. .13¼- —
21, ordinary selected nubs, c.l., same basis..lb. .12¾- —
22 small mixed nubs, bgs., same basis..lb. 10¾- —
23, dark mixed nubs, bgs., c.l., same basis..lb. .11¾- —
24, No. 1, ivory nubs, bgs., c.l., same basis..lb. .17¾- —
25, No. 2, natural ivory nubs, bgs., c.l., same basis..lb. .09½- —
26, pale small nubs, c.l., same basis..lb. .10¾- —
27, pale small nubs, bgs., c.l., same basis..lb. .10¼- —
28, pale dust, bgs., c.l., same basis..lb. .06¾- —
Batu, bold, scraped, bgs., c.l., same basis..lb. .06½- —
unscraped, bgs., c.l., same basis..lb. .06 - —
chips, bgs., c.l., same basis, lb. .05¼- —
dust, bgs., c.l., same basis, lb. .05¼- —
nubs and chips, bgs., c.l., same basis..lb. .05¼- —
black, bold, scraped, bgs., c.l., same basis..lb. .08¾- —
unscraped, bgs., c.l., same basis..lb. .05¾- —
nubs and chips, bgs., c.l., same basis..lb. .06¼- —
Hiroe, Macassar, pale bold, bgs., c.l., same basis..lb. .12¾- —
chips, bgs., c.l., same basis, lb. .06¾- —
dust, bgs., c.l., same basis, lb. .05¼- —
nubs, bgs., c.l., same basis, lb. .10½- —
Singapore, Rasak, bold, bgs., c.l., same basis..lb. .15¾- —
chips, bgs., c.l., same basis, lb. .08½- —
dust, bgs., c.l., same basis, lb. .06¼- —
nubs, bgs., c.l., same basis, lb. .11 - —
Manila, Boeas, amber and dark, bakts., c.l., same basis..lb. .13¾- —
light, bakts., c.l., same basis..lb. .15¾- —
Loba A, bakts., c.l., same basis..lb. .11¾- —
B, bakts., c.l., same basis, lb. .11¾- —
C, bakts., c.l., same basis, lb. .11¼- —
CNE, bakts., c.l., same basis..lb. .08½- —
D, bakts., c.l., same basis, lb. .12½- —
DK, bakts., c.l., same basis, lb. .08 - —
dust, bakts., c.l., same basis..lb. .06 - —
Sambas and white split chips, bakts., c.l., same basis..lb. .15¾- —
Singapore, dust, bakts., c.l., same basis..lb. .06 - —
Spirit-soluble, CBB, bakts., basis..lb. .10¾- —
DBB, bakts., c.l., same basis..lb. .10 - —
MA, bakts., c.l., same basis, lb. .07¾- —
MB, bakts., c.l., same basis, lb. .07¼- —
WS, bakts., c.l., same basis, lb. .10 - —
A/D, cs., c.l., same basis, lb. .13¾- —
Philippine, Manila, amber sorts, bskts., c.l., same basis..lb. .08 - —
chips, pale, bskts., c.l., same basis..lb. .11¾- —
pale, small, bskts., c.l., same basis..lb. .09 - —
extra pale sorts, bskts., c.l., same basis..lb. .10½- —
nubs, bskts., c.l., same basis..lb. .13½- —
pale, scraped, bskts., c.l., same basis..lb. .14¾- —
seeds and dust, bskts., c.l., same basis..lb. .08¾- —
Pontianak, bold, genuine bgs., same basis..lb. .15¾- —
mixed, bgs., c.l., same basis, lb. .14¾- —
split, bgs., c.l., same basis, lb. .13¾- —
chips, bgs., c.l., same basis, lb. .10 - —
nubs, bgs., c.l., same basis, lb. .12¾- —
Dammar, Batavia, A, cs., c.l., same basis as copal..lb. .21¾- —
A/C, cs., c.l., same basis.lb. .15¼- —
A/E, cs., c.l., same basis.lb. .12¾- —
B, cs., c.l., same basis...lb. .20¼- —
C, cs., c.l., same basis...lb. .14¾- —
D, cs., c.l., same basis...lb. .13¼- —
dust, cs., c.l., same basis.lb. .07¾- —
E, cs., c.l., same basis...lb. .10 - —
F, cs., c.l., same basis...lb. .08 - —
Gum, dammar, Singapore, 1, cs., c.l., same basis..lb. .16¾- —
2, cs., c.l., same basis....lb. .12¼- —
3, cs., c.l., same basis....lb. .07¼- —
chips, cs., c.l., same basis.lb. .11 - —
dust, cs., c.l., same basis.lb. .07¼- —
seeds, cs., c.l., same basis.lb. .09¾- —
Elemi, cns., c.l., same basis as copal..lb. .06½- —
Ester, dms., dlvd., New England, N. J., eastern N. Y. and Pa., Del. and Md. 75,000 lbs., contrs. or single shipt., 10,000 lbs. .....lb. .06¼- .06¾
less than 10,000 lbs., same basis..lb. .06½- .07
dlvd., Western N.Y. and Pa., Ohio, Mich., Ind., Ill., Wis., Minn., Iowa, Mo., Ky., Va., W. Va., and N. C., 75,000 lbs., contrs. or straight c.l. lb. .06¾- .07
dlvd. elsewhere, 75,000 lbs., contrs. or straight c.l.....lb. .07 - .07¼
l.c.l. same basis.....lb. .07¼- .07¾
Euphorbium, cs.....lb. .50 - .55
Galbanum, cs.....lb. 1.05 - 1.10
Gamboge, pipe, cs.....lb. .75 - .80
powd., bbls.....lb. .80 - .85
Ghatti, soluble, bgs.....lb. .11 - .15
superior, bgs.....lb. .09 - .11
Guaiac (see Guaiac resin).
Karaya, bbls., bxs., dms.....lb. .14 - .33
Kauri, brown, XXX, cs., c.l.lb. .60 - —
BX, cs., c.l., same basis..lb. .38 - —
B1, cs., c.l., same basis..lb. .28 - —
B2, cs., c.l., same basis..lb. .24 - —
B3, cs., c.l., same basis..lb. .18¼- —
80%, chips, cs., c.l. same basis..lb. .12¼- —
pale, XXX, cs., same basis.lb. .61 - —
1, cs., c.l., same basis...lb. .41 - —
2, cs., c.l., same basis...lb. .24 - —
3, cs., c.l., same basis...lb. .17¾- —
Kino, tins.....lb. 2.00 - 2.10
Locust bean, powd., bbls.....lb. Nominal
Mastic, cs.....lb. 2.40 - 2.50
Myrrh, USP, cs.....lb. .50 - .55
Olibanum, siftings, cs.....lb. .09 - .10
tears, cs.....lb. .20 - .35
Opium (see O).
Rosin (see R).
Sandarac, cks.....lb. .50 - .55
Scammony, cs.....lb. 1.10 - 1.15
Talha, bgs.....lb. .14 Nom.
Thus, bbls.....280 lbs.15.00 -15.25
Tragacanth, Alleppo, 1 cs....lb. 3.50 - 3.75
2 cs.....lb. 3.35 - 3.60
3 cs.....lb. 2.90 - 3.10
Yacca, bgs.....lb. .03½- .04
Gypsum, Keene's cement, paper bgs., c.l., f.o.b. Acme, Tex., frt. equald..ton.22.45 - —
Medicine Lodge, Kans., frt. equald..ton.17.00 - —
Harlem River, N. Y., frt. equald..ton.13.00 - —
New Brighton, N. Y., frt. equald..ton.27.65 - —
Southard, Oklahoma, frt. equald..ton.17.00 - —
Sweetwater, Texas, frt. equald..ton.21.45 - —
plaster of Paris, paper bgs., c.l., f.o.b. Blue Rapids, Kans., frt.equald..ton.12.50 - —
Acme, Tex., frt. equald.ton.12.50 - —
Medicine Lodge, Kans., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald..ton.13.00 - —
Southard, Oklahoma, frt. equald..ton.12.50 - —
Sweetwater, Texas, frt. equald..ton.12.50 - —
Stucco, paper bags, c.l., f.o.b. Acme, Tex.; Akron, N.Y.; Blue Rapids, Kan.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, O.; Harlem River, N. Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Va.; Portsmouth, N. H.; Roton, Tex.; Saltville, Va.; Southard, Okla.; Sweetwater, Tex., frt. equald., ton. 8.00 - —
terra alba, dom., paper bgs., c.l., f.o.b. New Brighton, N. Y.; Southard, Okla., frt. equald..ton.12.00 - —
import, bgs., ex dock.....ton.28.00 Nom.

## H

Hawthorn berries, bgs.....lb. .30 - .35
Heliotropin, cryst., cns.....lb. 3.00 - 3.20
Hellebore root, white, powd., bbls., lb. .18 - .19
Helonias root, bls.....lb. .55 - .60
Hematine crystals, bbls.....lb. .20 - .30
Hemlock bark extract, 25%, tan, c.l., bbls., works..lb. .03¼- —
l.c.l., bbls., works.....lb. .03⅝- —
tanks, works.....lb. .02¾- —
Hempseed, Manchur, bgs.....lb. .06½- .07¼
Henbane leaves, bls.....lb. 1.75 Nom.
Henna leaves, bls.....lb. .30 - .32
powd., bbls., bxs.....lb. .35 - .37
Heptane, mixed, 77-115°C., dms., c.l., Group 3..gal. .11 - —
l.c.l., Group 3.....gal. .16 - —
tanks, Group 3.....gal. .08½- —
normal, 86-100°, dms., c.l., Group 5..gal. .11½- —
l.c.l., Group 3.....gal. .17 - —
tanks, Group 3.....gal. .09½- —
Hexaldehyde, normal, dms., l.c.l., works..lb. 1.10 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., dms., 1,500 lbs. or more, shipments, f.o.b. Perth Amboy or N.Y.C..lb. .32 - —
150 to 1,350 lbs., shipments, same basis..lb. .33 - —
USP, dms., 500 lbs. or more, shipments, same basis..lb. .38 - —
fib. ctns., same basis.....lb. .40 - —
Hexane, normal, 60-70° C., dms., c.l., Group 3..gal. .12½- —
l.c.l., Group 3.....gal. .17 - —
tanks, Group 3.....gal. .10½- —
laboratory grade, dms., c.l., Group 3..gal. .14 - —
l.c.l., Group 3.....gal. .25 - —
Hexanol, dms., l.c.l., works....lb. .25 - —
Homatropine hydrobromide, bots., 25 ozs..oz.13.00 -13.25
Hoofmeal, 17-18% ammon., bulk, f.o.b. Chicago..unit 2.20 - 2.25
Hops, N.F., bls.....lb. .20 - .21
Horehound, bls.....lb. .15 - .16
Hydrangea root, bls.....lb. .08 - .09
Hydrastine, bots., 4 ozs.....oz.20.00 - —
Hydrochloride, both., 4 oz...oz.20.00 - —
Sulphate, bots., 4 ozs.....oz.21.75 - —
Hydrastinine, 15 grs., bots...bot. 1.95 - —
Hydrastis (see Golden seal).
Hydrofuramide, dms., 100 lbs. or more, works..lb. .30 - —
fib. ctns., works.....lb. .40 - —
Hydrogen peroxide, USP, bbls.lb. .03¾- .04
100 vols., cbys., E. of Miss. River; West Coast via Panama canal..lb. .16 - .18½
Hydroquinone, dealers, bbls., dms. lb. .90 - .94
Hydroxycitronellal, cns.....lb. 2.00 - 2.50
Hyoscine hydrobromide, bots..oz.65.00 -75.00
Hydrochloride, bots.....oz.65.00 -75.00
Hyoscyamine, 5 gr., bots.....bot. .60 - —
Hydrobromide, 5 gr., bots..bot. .60 - —
Sulphate, 5 gr., bots.....bot. .60 - —
Hypernic, ext. liquid, 50°, bbls. lb. .14 - —

## I

Iceland moss, bls.....lb. .25 - .27
Ichthyol, bots.....lb. 4.00 - —
Indian red (see Red, Indian).
Indigo, nat., Madras, cs.....lb. 2.14 - 2.20
synth., liq., bbls.....lb. .16½- .19
powd., bbls.....lb. .74½- .85
Indol, CP, bots.....lb.32.00 -34.00
Insect flowers (see Pyrethrum).
Iodine, crude, jars, 25 lbs....lb. 1.67 - —
kgs., 150 lbs., less 5%, ex whse, Staten Island..lb. 1.35 - 1.44
resubl., bots., 5 lbs.....lb. 1.85 - —
jars, 50 lbs.....lb. 1.75 - —
tincture, USP, bbls., 47 gals.gal. 2.00 - —
cbys., 5 gals.....gal. 2.05 - 2.10
mild, bbls., 47 gals.....gal. 1.25 - —
cbys., 5 gals.....gal. 1.30 - 1.35
Iodoform, dms., 100 lbs.....lb. 3.95 - 4.10
jars .....lb. 4.20 - —
Ionone, alpha, bots.....lb. 2.75 - 2.80
extra, bots.....lb. 3.75 - 3.80
beta, bots.....lb. 3.10 - 3.15
beta, bots.....lb. 3.90 - 3.95
Ipecac root, bgs.....lb. 1.15 - 1.20
powd., bxs.....lb. 1.30 - 1.35
Irish moss, ordinary, bls.....lb. .25 - .28
powd., 80-90 mesh, bbls..lb. .35 - .38
prime bleached, bls.....lb. .32 - .35
Iron acetate, N. F., IV, 100-lb. cbys..lb. .15 - —
djns., 50 lbs.....lb. .16 - —
liquor, bbls., c.l., dlvd....lb. .03 - —
l.c.l., dlvd.....lb. .04 - —
Chloride (ferric), tech., anhydr., 390-lb. dms..100 lbs. 4.65 - 5.25
150-lb. dms.....100 lbs. 5.00 - 6.00
cryst., bbls., works, frt. alld. or equald..lb. .05 - .08
kegs., works, frt. alld. or equald..lb. .07½- .09
liquor, cbys., works, frt. alld. or equald..lb. .05 - .06
USP X, cryst., bbls.....lb. .07½- —
kegs .....lb. .08½- —
solut. cbys., works, frt. alld. or equald..lb. .06½- .07
djns.....lb. .07½- —
Citrate, USP VIII, pearls...lb. .72 - .75
powd., cns.....lb. .84 - .87
scales, cns.....lb. .77 - .80
Glycerophosphate, bbls., bgs., 1,000-lb. lots..lb. 3.15 - —
smaller lots.....lb. 3.25 - —
cns., 25 lbs.....lb. 3.37 - —
Hypophosphite, cns.....lb. 1.55 - 1.60
Iodide, bots.....lb. 3.18 - 3.32
syrup, djns.....lb. .39 - —
bots. .....lb. .53 - —
nitrate, red, tech., dms.....lb. .03½- .04
Oxalate, powd., kgs.....lb. .47 - —
cns. .....lb. .52 - —
scales, cns.....lb. .83 - .85
Oxide (see Black, Red, etc.).
Phosphate, ferric, pearls, cns., 50 lbs..lb. .54 - —
25 lbs.....lb. .57 - —
scale, cns., 50 lbs.....lb. .59 - —
25 lbs.....lb. .62 - —
ferrous, 200-lb. bbls.....lb. .35 - —
25-lb. bxs.....lb. .40 - —
100-bl. kgs.....lb. .37 - —
Pyrophosphate, pearls, cns...lb. .59 - .62
scales, cns.....lb. .64 - .67
Reduced, 90%, cs.....lb. .65 - .75
Sulphate, tech. (see Copperas and ferric sulphate),
Sulphate, USP, cryst., 275-lb. bbls..lb. .04¼- —
dms., 100 lbs.....lb. .06½- —
Iron-ammonia citrate, brown, gran., cns..lb. .35 - .36
pearls, cns.....lb. .35 - .38
scales, cns.....lb. .47 - .50
green, gran., cns.....lb. .35 - .38
pearls, cns.....lb. .35 - .36
scales, cns.....lb. .47 - .50
Iron-ammonia oxalate, bxs...lb. .30 - —
fib. dms.....lb. .23¼- —
kgs. .....lb. .25½- —
Iron-potash oxalate, bbls.....lb. .42 - —
kgs. .....lb. .44 - —
jars .....lb. .48 - —
Iron-soda oxalate, bxs.....lb. .30 - —
fib. dms.....lb. .23¼- —
kgs. .....lb. .25½- —
Isobutylacetate, 55-gal. dms., works..lb. .060 - —
tanks, works.....lb. .059 - —
Propionate, dms., works.....lb. .09 - —
Isopentane, 50-gal. dms., single, works..gal. .45 - —
10-gal. dms., single, works..gal. .55 - —
Isophorone, dms., works.....lb. .25 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., 5 gals., E. of Rockies, frt. alld..lb. .10½- —
55 gals., c.l., E. of Rockies, frt. alld..lb. .07 - —
55 gals., l.c.l., E. of Rockies, frt. alld..lb. .07½- —
tanks, E. of Rockies, frt. alld..lb. .06 - —
Alcohol (see Alcohol).
Ether, dms., 5 gal., frt. alld., gal. .55 - —
55 gals., c.l., E. of Miss., frt. alld..gal. .35 - —
55 gals., c.l., W. of Miss., frt. alld..gal. .39 - —
l.c.l., E. of Miss., frt. alld., gal. .44 - —
tanks, E. of Miss., frt. alld., gal. .25 - —
W. of Miss., frt. alld., gal. .29 - —

## J

Jaborandi leaves, bls.....lb. .11 - .12
Jalap root, NF, bls.....lb. .28 - .30
powd., bbls., bxs.....lb. .30 - .32
resin, lump, 100-lb. lots, cns.lb. 5.85 - —
powd., bxs.....lb. 5.90 - —
Juniper berries, bgs.....lb. .60 - .80

# K

Kamala, tins.....lb. .32 - .33
Kaolin (see China clay).
Kava kava root, bls.....lb. .14 - .16
Kerosene, at refinery:—
Bayonne, 41-43 w.w., tanks, gal. .0510- .0550
California (f.o.b. San Francisco), truck..gal. .11½- —
Gulf ports, p.w., bulk.....gal. .07½- —
Louisiana - Arkansas, 41-43 w.w., bulk..gal. .03⅞- —
Oklahoma-Texas, 41-43 w.w., tanks..gal. .03⅞- .04½
42-44 w.w., tanks.....gal. .04 - .04½
Pennsylvania, 45 w.w., tanks, gal. .04⅞- .05½
46 w.w., tanks.....gal. .04⅞- .05½
47 w.w., tanks.....gal. .05 - .05½
Kerosene distillate (see Oil, furnace).
Kieserite, cal., 96-98% $MgSO_4$, bgs., c.l., ex vessel Atlantic, Gulf ports, duty pd..ton. No prices
Kola nuts, bgs.....lb. .12 - .13

# L

Lady slipper root, bls.....lb. .36 - .37
Lanolin (see Adeps lanae).
Lard, city, tubs.....100 lbs. 5.75 - 5.85
Middlewestern, trcs....100 lbs. 5.20 - 5.30
Neutral, trcs.....100 lbs. 6.75 - 7.00
Western, choice, trcs..100 lbs. 5.30 - 5.40
Compound, trcs.....100 lbs. 8.00 - 8.25
Larkspur seed, bgs.....lb. 1.25 - 1.30
Laurel berries, bls.....lb. .25 - .26
Leaves, Greek, bls.....lb. .27 - .28
Turkish, bls.....lb. No stocks
Lavender flowers, ordinary, bls.lb. .45 - .50
medium, bls.....lb. .55 - .60
select, bls.....lb. .65 - .70
Lead acetate, white, broken, bbls., lb. .11 - —
cryst., bbls.....lb. .11 - —
gran., bbls.....lb. .11¾- —
powd., bbls.....lb. .11¾- —
Arsenate, bgs., c.l.....lb. .09 - .09½
l.c.l., bgs.....lb. .09½- .10
Lead arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 96 lbs. or over; no frt. or truck allowance for works or whse. pick ups.
Blue, basic sulphate, bbls., c.l., dlvd. E..lb. .06¼- —
dlvd., Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo. .....lb. .06¼- —
l.c.l., dlvd. E.....lb. .06½- —
dlvd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo. .....lb. .07 - —
Carbonate (see Lead, white).
Chloride, pure, bots., 5 lbs...lb. .62 - —
fib. dms., 25 lbs.....lb. .40 - —
Iodide, NF V, powd., 5-lb. bots., lb. 2.60 - —
jars .....lb. 2.55 - —
Linoleate, pale, precip., dms.lb. .19 - —
Metal (see daily quotations in market report).
Lead, metallic, paste, 200-lb. cont., f.o.b. works..lb. .10 - —
5-lb. cont., f.o.b. works....lb. .22 - —
Nitrate, bbls.....lb. .11 - .14
Oleate, bbls.....lb. .18½- .20
Peroxide, powd., bbls., tech..lb. .23 - —
Red, dry, 95% or less, $Pb_3O_4$, bbls., c.l. (20 tons), dlvd., Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash..lb. .0840- —
other points.....lb. .0815- —
l.c.l., 5 tons, dlvd., Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. Cascade Mts. in Ore. and Wash..lb. .09 - —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash..lb. .09½- —
Colo., Mont., N. Mex., Wyo..lb. .09¼- —
other points.....lb. .08¾- —
smaller lots, Ala., etc..lb. .09¾- —
Ariz., etc.....lb. .10 - —
Colo., etc.....lb. .09¾- —
other points.....lb. .09¼- —
97% $Pb_3O_4$, bbls., c.l. (20 tons), dlvd., Ala., etc...lb. .0865- —
other points.....lb. .0840- —
l.c.l., 5 tons, dlvd., Ala., etc..lb. .09¼- —
Ariz., etc.....lb. .09¾- —
Colo., etc.....lb. .09¼- —
other points.....lb. .09 - —
smaller lots, dlvd. Ala.lb. .09¾- —
Ariz., etc.....lb. .10¼- —
Colo., etc.....lb. .10 - —
other points.....lb. .09½- —
98% $Pb_3O_4$, bbls., c.l. (20 tons, dlvd., Ala., etc...lb. .0890- —
other points.....lb. .0865- —
l.c.l., 5 tons, dlvd., Ala., etc..lb. .09½- —
Ariz., etc.....lb. .10 - —
Colo., etc.....lb. .09¾- —
other points.....lb. .09¼- —
smaller lots, dlvd., Ala., etc..lb. .10 - —
Ariz., etc.....lb. .10½- —
Colo., etc.....lb. .10¼- —
other points.....lb. .09¾- —
in oil, 95% min., 100-lb. kgs..lb. .12½- —
lb. .12½- —
Resinate, fused 15%, bbls...lb. .09¼- —
pale, bbls.....lb. .11½- —
Silicate, bgs., 5 tons.....lb. 6.59 - —
smaller lots.....lb. 7.01 - —
Stearate, bbls.....lb. .25 - —
Sulphate (see Lead, white basic sulphate).
Titanate, bbls., c.l., (20 tons), works, frt. alld..lb. .10 - —
l.c.l., 5 tons, one delvy., E. frt. alld..lb. .10¼- —
Pac. Cst., ex whse...lb. .10¼- —
smaller lots, E. frt. alld., lb. .10¼- —
Pac. Cst., ex whse...lb. .10½- —
Lead, white, dry, basic carbonate, bbls., c.l., dlvd., Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash and Wyo..lb. .07½- —
other points.....lb. .07¼- —
l.c.l., dlvd., Ariz., etc..lb. .07¾- —
other points.....lb. .07½- —
basic sulphate, bbls., c.l., dlvd., Ariz., etc..lb. .06⅜- —
other points.....lb. .06½- —
l.c.l., dlvd., Ariz., etc...lb. .07 - —
other points.....lb. .06⅝- —
in oil, 100-lb. kgs., consumers, lb. .12⅜- —
dealers .....lb. .10⅝- —
painters .....lb. .11⅜- —
Consumers' price and painters' price are ½c. lower on orders of 500 lbs. or more.
Lecithin, 100%, cns., f.o.b., N.Y. or Chi..lb. 2.50 - —
edible, grade 1, dms., c.l., same l.c.l., same basis..lb. .47½- .65
grades 2 or 3, dom., c.l., same basis..lb. .47½- —
l.c.l., same basis.....lb. .50 - .67½
grade 4, dms., c.l., same basis..lb. .50 - —
l.c.l., same basis.....lb. .52½- .70
purified, cs., dms., c.l., same basis..lb. .63 - —
l.c.l., same basis.....lb. .67½- .85
tech., grade 1, dms., c.l., same basis..lb. .35 - —
l.c.l., same basis.....lb. .37½- .55
grade 2 or 3, dms., c.l., same basis..lb. .37½- —
l.c.l., same basis.....lb. .40 - .57½
grade 4, dms., c.l., same basis..lb. .40 - —
Lecithin prices quoted above are for goods packed in 25, 50 or 100-lb. dms. When goods are packed in 500-lb. dms., prices are 1c. per lb. less.
Lemon peel, bls.....lb. .13 - .15
Licorice extract, mass, cs.....lb. No prices
powd., bbls.....lb. No prices
root, cuttings, bls.....lb. .10 - .11
powd., bbls., bxs.....lb. .12 - .13
select, bdls., cs.....lb. .50 - .60
Lime, chemical (quicklime), lump or pebble, bulk, f.o.b.
Bellefonte, Pa.....ton. 7.00 - —
Berkley, W. Va.....ton. 7.00 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa....ton. 8.50 - —
Crab Orchard, Tenn..ton. 6.25 - —
Eagle Mountain, Va..ton. 7.00 - —
Farnams, Mass.....ton. 8.00 - —
Gibsonburg, Ohio....ton. 7.00 - —
Hannibal, Mo.....ton. 6.50 - —
Keystone, Ala.....ton. 7.00 - —
Knoxville, Tenn.....ton. 6.25 - —
Limedale, Ark.....ton. 7.00 - —
Longview, Ala.....ton. 6.25 - —
Manistique, Mich....ton. 8.00 - —
Martinsburg, W. Va..ton. 7.00 - —
Menominee, Mich...ton. 8.00 - —
Mitchell, Ind.....ton. 8.50 - —
Newala, Ala.....ton. 6.25 - —
Rincon, Cal.....ton.13.00 - —
Ripplemead, Va.....ton. 7.00 - —

## Kamala—Lime-Sulphur Sol.

Lime, chemical (quicklime), lump or pebble, bulk, f.o.b. Riverton, Va..ton. 7.00 - —
San Francisco, Cal..ton.13.00 - —
Scioto, Ohio.....ton. 6.50 - —
Springfield, Mo.....ton. 7.00 - —
Woodville, Ohio.....ton. 7.00 - —
York, Pa.....ton. 7.00 - —
hydrated, paper bags, f.o.b. Bellefonte, Pa.....ton. 8.50 - —
Berkley, W. Va.....ton. 8.50 - —
Buffalo, N. Y.....ton.10.00 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa....ton. 8.00 - —
Crab Orchard, Tenn.ton. 9.00 - —
Eagle Mountain, Va..ton. 9.00 - —
Farnams, Mass.....ton. 8.50 - —
Gibsonburg, Ohio....ton. 8.50 - —
Hannibal, Mo.....ton. 8.50 - —
Keystone, Ala.....ton. 9.00 - —
Knoxville, Tenn.....ton. 9.00 - —
Le Roy, Minn.....ton.10.00 - —
Lime Crest, N. J....ton. 8.50 - —
Limedale, Ark.....ton. 9.00 - —
Longview, Ala.....ton. 9.00 - —
Louisville, Ky.....ton.14.50 - —
Manistique, Mich....ton. 9.00 - —
Marblehead, Ohio....ton. 9.50 - —
Martinsburg, W. Va..ton. 8.50 - —
Mitchell, Ind.....ton. 9.00 - —
Newala, Ala.....ton. 9.00 - —
Potoskey, Mich.....ton. 9.00 - —
Port Island, Mich....ton. 9.00 - —
Rapid City, S. D....ton.12.00 - —
Ripplemead, Va.....ton. 9.00 - —
San Francisco, Cal..ton.16.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
spray, paper bags, f.o.b. Bellefonte, Pa..ton. 9.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio....ton.11.00 - —
Lime Crest, N. J....ton. 8.50 - —
Marblehead, Ohio....ton.11.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.11.00 - —
York, Pa.....ton. 9.00 - —
Lime salts (see Calcium).
Lime-sulphur, dry, dealers, bgs., c.l., E. of and incl. N. Dak., S. Dak., Neb., Kan., Okla., Tex..lb. .07½- .09¼
dms., same basis.....lb. .10¼- —
400 lbs., or more, bgs., same basis..lb. .07¾- .09¼
dms., same basis.....lb. .11 - —
less than 400 lbs., same basis, lb. .08¼- .09¼
dms., same basis.....lb. .12 - —
solution, Zone 1, dms., consumers..gal. .16 - —
Zone 2, tanks, dealers, wks., gal. .08½- —
30-50 dms.....gal. .11 - .16
Zone 3, tanks, dealers .dlvd., gal. .07½- —
30-50 dms.....gal. .10½- .14½
Zone 4, tanks, dealers, wks., gal. .08 - —
dms., wks., except Cal.gal. .12 - —
Zone 5, tanks, dealers, dlvd., gal. .10¼- —
dms. .....gal. .12 - —

# Specks on the horizon

Manufacturers, whose own sales departments must concentrate on marketing principal products, have found our specialized organization constructively helpful in marketing chemicals which are produced incidental to their basic businesses.

Two generations of international experience in representing buyers and sellers of chemicals and a sound knowledge of the chemical business have given us a clear eye, trained in singling out the elusive but desirable customer for chemicals or chemical by-products.

We invite correspondence from manufacturers interested in increased distribution in the chemical or allied industries.

*Inquiries for these and other chemicals are invited.*

TARTARIC ACID • CREAM OF TARTAR • ROCHELLE SALT
CITRIC ACID • SAPONIN • ACETIC ANHYDRIDE
ETHYLENE DIAMINE • VEGETABLE LECITHIN • SODIUM PERBORATE

**NEUBERG CHEMICAL CORPORATION**

441 LEXINGTON AVENUE, NEW YORK CITY • TELEPHONE MURRAY HILL 6-1990

# IT'S A Question of "Fit"

Yes, "fit" is important whether you're spending an hour working out a puzzle . . . or devoting your life to solving the problems of manufacturing paint. For the sake of better fit, the Dutch Boy offers five different white-leads. Each of the five has its own special combination of paint-making characteristics. So you have a much better chance to find a white-lead that fits your product—a "lead" with exactly the qualities you desire.

Here's the wide choice that the Dutch Boy provides: First, those two old standbys, Dutch and Carter. Next, H.T.S. with its increased paint-thickening power, tinting strength and hiding power. Finally, the new 333 and 111 White-Leads, both of which rate even higher in these qualities. No. 111 for example, has greater paint-thickening power, tinting strength and hiding power than any other white-lead on the market.

Remember that no matter which one of the five you choose, you can be sure of uniformity. Remember also, that the more white-lead you use the better the paint. Step up the white-lead in your formula and you automatically step up the quality and durability of your paint.

**NATIONAL LEAD COMPANY**—111 Broadway, New York; 116 Oak St., Buffalo; 900 West 18th St., Chicago; 659 Freeman Ave., Cincinnati; 1213 West Third St., Cleveland; 722 Chestnut St., St. Louis; 2240 24th St., San Francisco; National-Boston Lead Co., 800 Albany St., Boston; National Lead & Oil Co. of Penna., 1376 River Ave., Pittsburgh; John T. Lewis & Bros. Co., Widener Building, Philadelphia.

Lime-sulphur solution, Zone 6, tanks, dealers.....gal. .07½- —
36-50 dms.....gal. .10 - .14

Prices for lime sulphur solution are f.o.b. warehouse points, freight allowed. Zone 1: includes Ga., S. C., Ala., N. C., except the counties of Ashe, Surry, Stokes, Rockingham and Alleghany; Tenn., east of Tenn. River. Zone 2: New England States, Zone 3, Ark., Ohio, Ind., Ill., Ia., Ky., Wis., Minns., Mo., and Tenn. west of Tenn. River; Penn., eastern tier, and W. Va. western tier. Zone 4: West of Rocky Mountains, except southern California, which makes up Zone 5. Zone 6: N. Y. east of Herkimer, N. J., Md., Del., Va., Pa.—all counties lying east of the western boundary of Bedford, Blair, Center, Clinton and Potter, W. Va.—counties of Mineral, Hampshire, Morgan, Berkeley, Jefferson, and Hardy, N. C.—counties of Ashe, Alleghany, Surry, Stokes and Rockingham.

Linalool, cns.....lb. 2.10 - 3.30
Linalyl acetate, cns.....lb. 1.75 - 3.00
Linden flowers, with leaves, bls.lb. .42 - .45
without leaves, bls.....lb. .48 - .50
Linseed cake, bgs., export...ton.21.00 - —
meal, bgs.....ton.27.00 -28.00
Litharge, com'l powd., bbls., 20-tons, dlvd., Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash..lb. .0740- —
Other points.....lb. .0715- —
5 tons, dlvd., Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex. and W. of Cascade Mts. in in Ore., and Wash..lb. .08 - —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash..lb. .08¼- —
Colo., Mont., N. Mex. in Ore., and Wash..lb. .08½- —
Wyo..lb. .08¼- —
Other poits.....lb. .07¾- —
smaller lots, dlvd., Ala..lb. .08½- —
Ariz., etc.....lb. .09 - —
Colo., etc.....lb. .08¾- —
Other points.....lb. .08¼- —
Lithium bromide, bbls., 100 lbs., works, frt. equal'd..lb. 1.90 - —
50 lbs., works.....lb. 1.93 - —
25 lbs., works.....lb. 1.95 - —
Carbonate, 250-lb. bbls.....lb. 1.25 - —
100-lb. kgs.....lb. 1.30 - —
Chloride, 25-lb. jars.....lb. 1.65 - 1.70
Citrate, 250-lb. bbls.....lb. 1.40 - —
25-lb. dms.....lb. 1.45 - —
100-lb. kgs.....lb. 1.40 - —
Fluoride, bbls.....lb. 2.10 - 2.25
Iodide, 5-lb. bots.....lb. 4.85 - —
25-lb. jars.....lb. 4.70 - —
Lithopone, titanated (high-strength), bgs., c.l., (20 tons)..lb. .05 - —
smaller lots.....lb. .05¼- —
bbls., c.l. (20 tons).....lb. .05¼- —
smaller lots.....lb. .05¼- —
ordinary, bgs., c.l. (20 tons)..lb. .0360- —
smaller lots.....lb. .0385- —
bbls., c.l. (20 tons).....lb. .0385- —
smaller lots.....lb. .04¼- —

Lithopone in car lots is delivered East or the Pacific Coast and in less than car-lot quantities delivered East or ex warehouse Pacific Coast.

Liverwort leaves, bls.....lb. .60 - .65
Lobelia, herb, bls.....lb. .14 - .15
Seed, bgs.....lb. .35 - .36
Logwood extract, cryst., bbls..lb. .20 - .24
liquid, 51°, bbls.....lb. .10½- .12½
solid, bxs.....lb. .16½- .20½
Lovage root, dms., bls.....lb. .45 - .50
imported, bls.....lb. .45 Nom.
Lupulin, N. E., tins.....lb. 1.65 - 1.70
Lycopodium, cs.....lb. 4.75 - 5.00

# M

Mace, Banda, cs.....lb. .45½- .46
Batavia, cs.....lb. .23 - .23½
Siauw, cs.....lb. .30 - .31
West Indian, cs.....lb. .31 - .32
Madder, Dutch, bbls.....lb. .22 - .25
Magnesia, arsenate, dms.....lb. .18 - .20
Calcined, tech., USP, bbls., wks..lb. .26 - —
Carbonate, tech., Zone 1, l.c.l., bgs..lb. .06¼- —
bbls.....lb. .07½- —
kgs.....lb. .08¾- —
l.c.l., bgs.....lb. .07½- —
bbls.....lb. .08½- —
kgs.....lb. .09¾- —
Zone 2, c.l., bgs.....lb. .06¼- —
bbls.....lb. .07½- —
kgs.....lb. .08¾- —
l.c.l., bgs.....lb. .07 - —
bbls.....lb. .08¼- —
kgs.....lb. .09½- —
USP, Zone 1, c.l., bgs.....lb. .08 - —
bbls.....lb. .08½- —
kgs.....lb. .09¾- —
l.c.l., bgs.....lb. .09 - —
bbls.....lb. .09½- —
kgs.....lb. .10¾- —
Zone 2, c.l., bgs.....lb. .08 - —
bbls.....lb. .08½- —
kgs.....lb. .09¾- —
l.c.l., bgs.....lb. .08¾- —
bbls.....lb. .09½- —
kgs.....lb. .10½- —
Other points.....lb. .08 - —

Magnesia:—Zone 1—Mass., Conn., R. I. N.Y., N.J., Pa., D. of C., Del. and Md., c.l., shipments, frt., equald., with Phillipsburg, Ambler, Plymouth Meeting, Valley Forge, and New York. On l.c.l. shipments, frt alld., including dlvd. storedoor. Magnesia prices are f.o.b. Plymouth Meeting. Zone 2—Balance of U.S.; prices f.o.b. Plymouth Meeting, Ambler, Phillipsburg, Valley Forge, and New York.

Magnesium, chloride, anhyd., dom., bbls., dlvd..lb. .13 - —
flake, dom., bbls., wks., c.l., tons.32.00 - —
l.c.l., bbls., wks.....ton.39.00 -42.00
Hydroxide, med., 200-lb. bbls., lb. .25 - —
25-lb. dms.....lb. .30 - —
100-lb. kgs.....lb. .26 - —
Hypophosphite, cns., 100 lbs..lb. 1.45 - —
25 lbs.....lb. 1.50 - —
Oxide (see Calcined).
Palmitate, bbls.....lb. .33 Nom.
Peroxide, 15%, dms., works..lb. 1.00 - 1.35
Silicate (see Talc).
Silicofluoride, bbls.....lb. .11 - .11¼
Stearate, bbls., ctns., e.l.....lb. .23 - —
1 ton.....lb. .24 - —
1,000-2,000 lbs.....lb. .25 - —
smaller lots.....lb. .26 - —
Sulphate (see Epsom salt).
Trisilicate, 1,000-lb. contracts, dms..lb. .50 - —
smaller lots, dms.....lb. .55 - —
cs., 500-lb. lots.....lb. .53 - —
100-lb. lots.....lb. .55 - —
5-lb cns.....lb. .73 - —
Magnesite, cal., dom., bgs....ton.65.00 -70.00
Imports, bgs., duty paid...ton.70.00 Nom.
dead-burned, dom., bulk, c.l., f.o.b. Chewelah, Wash...ton.22.00 -25.00
dms., 25 lbs.....lb. .30 - —
kgs., 100 lbs.....lb. .26 - —
Malva flowers, black, bls.....lb. .85 - .95
blue, bls.....lb. .85 - .95
Leaves, bls.....lb. .30 - .40
Manaca root, bls.....lb. .23 - .24
Mandrake root, bls.....lb. .12 - .13
Manganese acetate, dms.....lb. .26½- —
Arsenate, bgs.....lb. .12 - .12½
Borate, tech., bbls.....lb. .15 - .16
Carbonate, bbls.....lb. .19 - —
Chloride, bbls.....lb. .14 Nom.
Dioxide, African, battery, 84-87%, bbls., 28-40 tons, works, ton.60.00 - —
5-15 tons, works.....ton.72.00 - —
½ 4 tons, works....ton.77.00 - —
Caucasian, 85-90%, bbls., c.l., works..ton.74.00 - —
l.c.l., 5 tons, works....ton.77.00 - —
smaller lots, works..ton.82.00 - —
burlap, bgs., c.l., works, ton.71.75 - —
l.c.l., 5 tons, works..ton.74.75 - —
smaller lots works.ton.79.75 - —
paper bgs., c.l., works..ton.70.00 - —
l.c.l., 5 tons, works..ton.73.00 - —
Glycerophosphate, bbls., kgs., 1,000-lb. lots..lb. 2.80 - —
smaller lots.....lb. 3.00 - —
cns., 25 lbs.....lb. 3.12 - —
Hydrate, bbls., dlvd.....lb. .82 - —
Iodide, bots., 5 lbs.....lb. 5.55 - —
jars, 25 lbs.....lb. 5.70 - —
Linoleate, liquid, 4%, dms...lb. .18 - .19½
solid, precip., 8.2%, bbls...lb. .19 - —
Ore, Cuban, 51-52%, basis Atl. ports..unit-ton.. .71 Nom.
Resinate, fused, 8 2%, bbls..ton. .08¼- .08½
precip., dms.....lb. .12 - —
Sulphate, anhyd., ton lots, works..lb. .10½- —
single bbls., works.....lb. .10¾- —
fertilizer, 65%, $MnSO_4$ bgs., c.l., dlvd., South..ton.57.00 - —
l.c.l., bgs.....ton.65.00 -75.00
Mangrove bark, bgs., shipt...ton.34.00 - —
Manna flake, large, cs.....lb. 2.00 Nom.
small, cs.....lb. 1.50 - 1.75
Mannitol, com'l grade, bbls., ton lots, works..lb. .38 - —
smaller lots, works.....lb. .45 - —
reagent grade, 50 lb. cs., or multiples, works..lb. .90 - —
Marble flour, bgs.....ton.12.00 -14.00
Marjoram, French, No. 1.....lb. .50 - .52
Tunisan, bls.....lb. .33 - .35
Chilean .....lb. .13 - .14
Matico leaves, bls.....lb. .22 - .25
Menthol, USP, natural, cs.....lb. 3.45 - 3.55
synthetic, tech., cs.....lb. 2.50 - —
USP, cs.....lb. 3.25 - —
liquid, dms., 50 lbs.....lb. 1.50 - —
Menthyl salicylate, tins, 100-lb. lots..lb. 3.00 - —
25-lb. lots.....lb. 3.10 - —
Mercurial ointment, 30%, pails, 50 lbs.....lb. 1.44 - —
25 lbs.....lb. 1.46 - —
50%, pails, 50 lbs.....lb. 2.09 - —
25 lbs.....lo. 2.11 - —
Mercury (see Quicksilver).
Ammoniated (see White precipitate).
Bichloride (see Corrosive sublimate).
Bisulphate, 5-lb. bots.....lb. 3.02 - —
100-lb. fib. dms.....lb. 2.89 - —
25-lb. jars.....lb. 2.91 - —
Chloride (see Calomel).
Cyanide, cryst.....lb. 4.00 - 4.05
powd.....lb. 4.05 - 4.10
Iodide, red, NF, 5-lb. bots...lb. 4.71 - —
100-lb. fib. dms.....lb. 4.60 - —
yellow, 5-lb. bots.....lb. 4.81 - —
fib. dms., 100 lbs.....lb. 4.70 - 4.75
Nitrate ointment (see Citrine ointment).
Oxide, red, NF (see Red precipitate).
tech. (see Red, mercury oxide).
yellow, dom., tech., bbls...lb. 2.66 - —
USP, fib. dms., 50 lbs. or more..lb. 3.13 - —
Mercury and chalk, 5 lb. ctns..lb. 1.98 - —
25-lb. fib. dms.....lb. 1.86 - 1.88
Mesityl oxide, cns., works.....lb. .20½- —
dms., c.l., dlvd.....lb. .18 - —
l.cl., dlvd.....lb. .16½- —
tanks, dlvd.....lb. .15 - —
Metal leaf, pkgs. of 20 books (500 leaves), aluminum, 5½x5½ in..pkg. 1.50 - 1.75
composition, 5½x5½ in...pkg. 1.70 - 1.80
gold, XX deep, 23K, 3⅜x3⅜ in. pkg.15.25 -15.75
3⅜x3⅜ in.....pkg.16.15 -17.50
4x4 in.....pkg.19.50 -20.00
3⅜x5 7/7 in.....pkg.22.50 -23.00
3⅜x5 7/7 in.....pkg.24.50 -25.00
silver, 3⅜x3⅜ in.....pkg. 2.75 - 2.85
Metanitroparatoluidin, bbls....lb. 1.05 - 1.10
Metaphenylenediamine, kgs....lb. .65 - —
Metatoluylenediamine, kgs.....lb. .65 - —
Methanol, natural, producer group A, denat., grade, tanks..gal. .40 - —
97%, tanks.....gal. .30 - —
95%, tanks.....gal. .29 - —

Methanol in drums, car lots, is 5c. per gal. higher, frt. alld., east of the Rocky Mts. Prices on the Pacific Coast are 3c. higher on tanks and 4c. per gal. higher on drums; car lots.

natural, producer group B, pure, tanks, frt. alld. Zone 1. gal. .30 - —
Zone 2.....gal. .32 - —
Zone 3.....gal. .34 - —
Zone 4.....gal. .34½- —
dms., c.l., Zone 1.....gal. .35½- —
Zone 2.....gal. .37½- —
Zone 3.....gal. .39½- —
Zone 4.....gal. .41½- —
l.c.l., Zone 1.....gal. .38 - —
Zone 2.....gal. .45½- —
Zone 3.....gal. .42 - —
Zone 4.....gal. .53½- —

95%, frt. alld., prices 2c. less than pure, all zones.

97%, frt. alld., prices 1c. less than pure, all zones.

Natural methanol sales zones are:—Zone 1, Conn., Del., D. of C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Tenn., R. I., Vt., Va., W. Va., Wisc.; zone 2, Ala., Ark., Col., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo.; zone 3, Los A., San Fran., Seattle, Wash., Portland, Ore.; zone 4, Ariz., Cal., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash.

Methanol, synthetic, pure, dms., c.l., Zone 1, frt. alld..gal. .35½- —
2, frt. alld.....gal. .37½- —
3, frt allds.....gal. .39½- —
4, frt. allds.....gal. .41½- —
l.c.l., Zone 1, frt. allds. or dlvd..gal. .38 - —
2, frt. allds. or dlvd..gal. .45½- —
3, dlvd., S. F. and L. A., gal. .42 - —
4, frt. allds. or dlvd..gal. .53½- —
Methanol, synthetic, pure, tanks, Zone 1, frt. allds.....gal. .30 - —
2, frt. allds.....gal. .32 - —
3, frt. allds.....gal. .34 - —
4. frt. allds.....gal. .34½- —

Synthetic methanol sales zones are:—Zone 1, Conn., Del., D. C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Penn., R. I., S. C., Tenn., Vt., Va., W. Va., Wis.; Zone 2, Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. D., Tex., Wyo.; Zone 3, Los Angeles, Cal.; San Francisco, Cal.; also (c.l. only) Portland, Ore., and Seattle, Wash.; Zone 4, Ariz., Cal., N. Mex., Mont., Nev., Idaho, Ore., Utah, Wash.

Methyl acetate, 97-99%, dms., c.l., E. of Miss. R..lb. .10½- —
W. of Miss. R.....lb. .11½- —
l.c.l., dms., dlvd. E. of Miss. R..lb. .11 - —
W. of Miss. R.....lb. .12 - —
tanks, dlvd., E. of Miss. R., works..lb. .09½- —
W. of Miss. R.....lb. .10½- —
tech., dms., c.l., dlvd., E of Miss. R..lb. .07 - —
W. of Miss. R.....lb. .08 - —
l.c.l., dlvd., E. of Miss. R..lb. .07½- —
W. of Miss R.....lb. .08½- —
tanks, dlvd., E. of Miss. R., lb. .06 - —
W. of Miss. R.....lb. .07 - —
Acetoacetate, dms., c.l., works, frt. allds..lb. .29½- —
Acetone, natural, group A producers, E. of Rockies, frt. allds., tanks..gal. .32 - —
dms., c.l., same basis...gal. .37½- —
l.c.l., same basis...gal. .40 - —

Methyl acetone prices on Pacific Coast are 3c. per gal. higher on tanks and 4c. per gal. higher on drums, car lots.

Acetone, natural, group B producers, tanks, Zone 1..gal. .32 - —
Zone 2.....gal. .34 - —
Zone 3.....gal. .36 - —
Zone 4.....gal. .36½- —
dms., c.l., Zone 1.....gal. .37½- —
Zone 2.....gal. .39½- —
Zone 3.....gal. .41½- —
Zone 4.....gal. .41½- —
l.c.l., Zone 1.....gal. .40 - —
Zone 2.....gal. .47½- —
Zone 3.....gal. .44 - —
Zone 4.....gal. .55½- —

Natural methyl acetone sales zones are:—Zone 1, Conn., Del., D. of C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Penn., R. I., Tenn., Vt., Va., W. Va., Wisc. Zone 2, Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo. Zone 3, Los A., San Fran., Seattle, Wash., Portland, Ore. Zone 4, Ariz., Cal., Mont., Nev., N. Mex., Ore., Utah, Idaho, Wash.

Synthetic, tanks, zone 1....gal. .34 - —
Zone 2.....gal. .42 - —
Zone 3.....gal. .45½- —
dms., c.l., zone 1.....gal. .36 - —
Zone 2.....gal. .44 - —
Zone 3.....gal. .48 - —
l.c.l., Zone 1.....gal. .37 - —
Zone 2.....gal. .45½- —
Zone 3.....gal. .48½- —
Alcohol (see Methanol).
Anthranilate, bots.....lb. 2.10 - 2.25
Benzoate, cns., 25 lbs.....lb. .70 - 1.00
Bromide, cyl.....lb. .65 - .75
Chloride, refrigeration, 500 lbs., and up, machine mfrs. and jobbers, cylinders..lb. .32 - —
service men and consumers, cyl..lb. .36 - —
60 to 499 lbs., cyl., mach. mfrs. and jobbers..lb. .36 - —
service men and consumers, cyl..lb. .40 - —
tanks, multi-unit, mach. mfrs. and jobbers..lb. .31 - —
service men and consumers, lb. .35 - —

Methyl chloride quotations are spot or contract, effective July 1, for delivery to any common carrier point in United States. Prices above are in 60, 90 and 180-lb. cylinders. Prices on the 20-lb. sylinders are uniformly 10c. per pound higher than above prices.

Cinnamate, bls.....lb. 2.75 - 3.25
Formate, dms.....lb. .89 - —
Lactate, dms., l.c.l., dlvd....lb. .80 - —
Iodide, bots.....lb. 3.68 - 3.92
Salicylate, dms.....lb. .35 - .37
cns.....lb. .37 - .40
Violet toner, bbls.....lb. .88 - —
permanent, bbls.....lb. .80 - —
Methylamyl ketone, dms., works, l.c.l..lb. .25 - —
smaller containers, same basis, lb. .26 - —
Methylcellulose, dms., c.l., frt. allds..lb. .47 - —
2,000 lbs. or more, frt. allds., lb. .50 - —
100 to 1,999 lbs., frt. allds.lb. .55 - —
1 to 99 lbs., works.....lb. .60 - —
Methylcyclohexane, 98-100%, dms., dlvd..lb. .17 - —
Methylcyclohexanol, 98-100%, dms., dlvd..lb. .26 - —
Methylcyclohexanone, 98 - 100%, dms., dlvd..lb. .40 - —
Methylene blue, medcl., kgs., 100 lbs..lb. 2.00 - —
cns., 5 lbs.....lb. 2.35 - —
Chloride, dms., f.o.b. works..lb. .19 - .22
Methylethyl ketone, dms., c.l., frt. pd. E. of Rocky Mts., lb. .07 - —
l.c.l., same terms.....lb. .07½- —
tanks, same terms.....lb. .06 - —
Methylheptenone, bots.....lb. 2.45 - 2.50
Methylhexyl ketone, dms., tech., works..lb. .60 - —
Methylisobutyl ketone, dms., 55-gal., c.l., works..gal. .70 - —
l.c.l., works.....gal. .80 - —
smaller containers, works.gal. 1.00 - —
tanks, works.....gal. .70 - —
Methylnaphthyl ketone, dom., cryst., bots..lb. 3.25 - 3.30
imp., bots.....lb. 3.10 - —
Methylpropyl ketone, dms., c.l.lb. .20½- —
l.c.l. .....lb. .21 - —
tanks .....lb. .19½- —
Metronite pigment, 120 mesh, containers extra, c.l., f.o.b. Milwaukee..ton. 9.00 - —
l.c.l., same basis.....ton.11.00 - —
180 mesh., containers extra, c.l., same basis..ton.11.00 - —
l.c.l., same basis.....ton.13.00 - —
Mica, dry grd., amber, No. 1 quality, bgs., extra and returnable, c.l., works..ton.30.00 - —
l.c.l., 5,000 lbs., works, ton.40.00 - —
1,000 lbs., works..lb. .02 - —
500 lbs., works..lb. .02¼- —
100 lbs., works..lb. .03 - —
refined, bgs., extra and returnable, c.l., works, ton.20.00 - —
l.c.l., 5,000 lbs, works, ton.30.00 - —

## Lime-Sulph. Sol.—Nitrobenzene

Mica, dry-grd., refd., paint, bgs., extra and returnable, c.l., works..ton.55.00 - —
l.c.l., 5,000 lbs, works, ton.65.00 - —
white, no. 1 quality, bgs., extra and returnable, c.l., works.....ton.35.00 - —
l.c.l., 5,000 lbs., works, ton.45.00 - —
1,000 lbs., works..lb. .02½- —
500 lbs., works..lb. .03 - —
roofing, bgs., extra and returnable, c.l., works, ton.29.00 - —
l.c.l., 5,000 lbs., works, ton.39.00 - —
paint, bgs., extra and returnable, c.l., works, ton.60.00 - —
l.c.l., 5,000 lbs., works, ton.70.00 - —
wet-ground, paint or lacquer, bgs., c.l., frt. allds. E..lb. .04½- —
l.c.l., ex whse., or frt. allds. E..lb. .05 - —
paper, wall or coated, bgs., c.l., frt. allds. E..lb. .04¾- —
l.c.l., ex whse., or frt. allds. E..lb. .04¾- —
rubber, bgs., c.l., frt. allds. E..lb. .04¼- —
l.c.l., ex whse., or frt. allds. E..lb. .04¾- —
wet-ground mica prices are ½c. per pound higher west of Rockies.
Milk powder, skimmed, roller, bbls., c.l..lb. .07 - —
l.c.l. .....lb. .08 - —
spray, bbls., c.l.....lb. .07¼- —
spray, l.c.l.....lb. .08½- —
unskimmed, roller, bbls., c.l., lb. .15½- —
l.c.l. .....lb. .16½- —
spray, bbls., c.l.....lb. .16 - —
Millet seed, yellow, bgs.....lb. .0250- .0280
early fortune, bgs.....lb. .02½- .06
hulled, bgs.....lb. .06¼- .06¾
Mineral spirits (see Petroleum thinners and V M & P naphtha).
Molasses, blackstrap, tanks, f.o.b. No. Atlantic ports..gal. .07 - —
f.o.b. Gulf ports.....gal. .06¼- .06¾
Molybdate orange (see Orange, molybdate).
Molydenum metal kgs., 99% powd..lb. 2.60 - 3.00
Trioxide, pure, kgs., basis Mo. content, works..lb. .95 - —
technical, kgs., basis Mo. content, works..lb. .80 - —
Monoamylamine, dms., c.l., wks., lb. .52 - —
l.c.l., works.....lb. .53 - .55
tanks .....lb. .50 - —
Monobutylamine, dms., c.l., wks., lb. .50 - —
l.c.l., works.....lb. .51 - .53
tanks, works.....lb. .48 - —
Monochlorobenzene, dms., l.c.l., lb. .06 - .08
Monoethanolamine, dms., c.l., works..lb. .24 - —
l.c.l., dms.....lb. .25 - —
tanks .....lb. .23 - —
Monoethylamine, basis 100% amine content, dms., l.c.l., works, lb. .65 - —
Monoethylanilin, dms.....lb. .77 Nom.
Monomethylamine, dms., c.l., dlvd..lb. .65 - —
l.c.l., dlvd.....lb. .70 - —
Monomethylpara-aminophenol sulphate, dms..lb. 3.75 - 4.00
Monosodiumphosphate (see Soda phosphate monobasic).
Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 ozs.....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
bots., 25 ozs.....oz. 8.80 - —
Ethylhydrochloride, bots., 5 ozs., oz.10.75 - —
cns., 25 ozs.....oz.10.55 - —
Hydrobromide, bots., 5 ozs..oz. 8.95 - —
cns., 25 ozs.....oz. 8.75 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Morpholine, dms., 55 gals., l.c.l., works..lb. .67 - —
smaller containers, works....lb. .75 - —
Mullein leaves, cns.....lb. .12 - .14
flowers, cns.....lb. 1.75 Nom.
Musk, nat., Tonquin, grained, bots..oz.24.00 -26.00
synth., ambrette, cns., 100 lbs. or more..lb. 3.65 - —
5 lbs. to 75 lbs.....lb. 3.85 - —
1 lb.....lb. 3.95 - —
ketone, cns., 100 lbs. or more, lb. 3.70 - —
5 lbs. to 75 lbs.....lb. 3.95 - —
1 lb.....lb. 4.10 - —
xylol, cns., 100 lbs. or more, lb. 1.05 - —
5 lbs. to 75 lbs.....lb. 1.15 - —
1 lb.....lb. 1.20 - —
Musk root, bls.....lb. .50 - .60
Mustard seed, California, brown, lb. .16¼- .16¾
yellow, bgs.....lb. .16½- .17
Chinese, yellow, bgs.....lb. .09¾- .10¼
Danish, yellow.....lb. .25 - .25½
Dutch, yellow, bgs.....lb. .28 - .29
English, yellow, bgs.....lb. No stocks
Montana yellow, bgs.....lb. .15 - .15½
Roumanian, yellow.....lb. .16 - .16½
Myrobalans, J1, bgs., f.a.s...ton.37.00 - —
J2, bgs., f.a.s.....ton.30.00 - —
Extract, liquid, 25%, bbls...lb. No prices
solid, 50%, bbls.....lb. No prices
powdered, 70%, bbls.....lb. .06 Nom.

# N

Naphtha, Painters (see Petroleum, naphtha, V. M. & P.).
Solvent (see 5).
Naphthalene, crude, dom., 74 deg., tanks, works.....100 lbs. 2.25 - —
78 deg., tanks, works.100 lbs. 2.50 - —
refined, balls or flakes, bbls., wholesalers and jobbers, f.o.b. works..lb. .07 - —
50-lb. cs., same basis...lb. .07¼- —
pkgs. (16 oz.), same basis, lb. .07¾- —
(12 oz.), same basis..pkg. .06¼- —
Nerolin, cryst., cns.....lb. 1.25 - 1.35
Nickel carbonate, bbls.....lb. .36 - .36½
Chloride, bbls.....lb. .18 - .20
Cyanide, 100-lb. dms.....lb. 1.40 - —
25-lb. bot.....lb. 1.50 - —
Oxide, black, bbls.....lb. .25 - .33
salt, bbls.....lb. .13 - .13½
Nicotine sulphate, 40%, dms., works, frt. allds..lb. .70 - —
10-lb. tins.....lb. .36½- —
Nitercake, bulk, works.....ton.16.00 - —
Nitrobenzene, dbl. dist., dms., c.l., lb. .08 - —
l.c.l. .....lb. .09 - —
tanks .....lb. .07 - —

## Nitrocellulose—Oil, Lubric.

| | | | |
|---|---|---|---|
| Nitrocellulose, alcohol-soluble, ½, and 40 sec. vis., bbls., works. | lb. | .26 | - — |
| bronzing, 20, 40, 70 sec. vis., bbls., works. | lb. | .30 | - — |
| ester soluble, 30-85 cps., ¼, ½ sec., bbls., c.l., dry weight, works. | lb. | .23 | - — |
| l.c.l., cps., ¼, ½ sec., bbls., dry weight, works. | lb. | .26 | - — |
| ester-soluble, 5-6, 15-20, 30-40, and 60-80 sec., bbls., c.l., dry weight, works. | lb. | .20 | - — |
| l.c.l., 5-6, 15-20 sec., high vis., bbls., works. | lb. | .25 | - — |
| lacquer, 20-30 and 60-80 sec., vis., bbls., works. | lb. | .20 | - — |

Nitrocellulose prices are quoted on the basis of dry weight; denatured alcohol used in manufacture is charged extra. Barrels are to be paid for extra, but are returnable.

| | | | |
|---|---|---|---|
| Nitroethane, l.c.l., dms., works. | lb. | .35 | - — |
| Nitrogen solution, nitrogen basis, tanks, f.o.b. Atlantic and Gulf ports. | unit-ton. | 1.2158 | - — |
| Nitrogenous fertilizer material, dom., 8-11% ammon., bulk, f.o.b. Carrollville, Wis., dlvd. | unit-ton. | 1.75 | - — |
| f.o.b. Chemical, Ill., | unit-ton. | 1.75 | - — |
| f.o.b. East Coast producing points. | unit-ton. | 2.20 | - — |
| import, bgs., c.i.f. Atlantic ports, shipt. | unit-ton. | No prices | |
| Nitromethane, l.c.l., dms., works, | lb. | .25 | - — |
| Nitronaphthalene, bbls. | lb. | .24 | - .35 |
| Nitropropane I, l.c.l., dms., works, | lb. | .25 | - — |
| II, same basis | lb. | .25 | - — |
| Nutgalls, Aleppo, bgs., cs. | lb. | .29 | - .30 |
| Chinese | lb. | .16 | - .17 |
| Extract (see Gall extract). | | | |
| Nutmegs, E. I., 80s, bgs., cs. | lb. | .18 | - .18½ |
| 110s, bgs., cs. | lb. | .16 | - .16½ |
| small, grinding, bgs. | lb. | .16 | - .16½ |
| Nux vomica, bls. | lb. | .05 | - .06 |
| powd., bbls., bxs. | lb. | .08 | - .09 |

## O

| | | | |
|---|---|---|---|
| Oakbark extract, 25% tan., bbls., c.l., works. | lb. | .03½- | — |
| l.c.l., bbls., works | lb. | .05½- | — |
| tanks | lb. | .02½- | — |
| Ocher (see Yellow). | | | |
| Octane, 100-140° C., mixed, dms., c.l., G.3. | gal. | .12½- | — |
| l.c.l., G.3. | gal. | .17 | - — |
| tanks, G.3. | gal. | .10½- | — |
| Octanol, normal, tech., 360-lb. dms., dlvd. | lb. | .35 | - — |
| Octyl acetate, dms., c.l., works. | lb. | .16 | - — |
| l.c.l., works | lb. | .17 | - — |
| tanks, works. | lb. | .15 | - — |
| Oil, almond, bitter, artif (see Benzalhedyde). | | | |
| natural, bots. | lb. | 3.00 | - 3.25 |
| s.p.a., bots. | lb. | 3.15 | - 3.50 |
| sweet, true, exp., cns. | lb. | .70 | - .75 |
| Amber, crude, cns. | lb. | .23 | - .24 |
| ref'd, cns. | lb. | .80 | - .85 |
| Oil, Amyris, cns. | lb. | 3.00 | - 3.25 |
| Angelica, bots. | lb. | 100.00 | Nom. |
| Anilin (see A). | | | |
| Anise, USP, cns., dms. | lb. | 1.05 | - 1.25 |
| Apricot, kernels, cns. | lb. | .28 | - .29 |
| Babassu, tanks. | lb. | .05¾ | Nom. |
| Bay, W. I., 50-55% phenols, cns. | lb. | 1.10 | - 1.15 |
| 55-60% phenols, cns. | lb. | 1.20 | - 1.25 |
| Bergamot, artif., cns. | lb. | 3.50 | - 5.00 |
| natural, coppers. | lb. | 12.00 | Nom. |
| Birch (see Oil, sweet birch). | | | |
| Birchtar, rectified, cns. | lb. | .90 | - .95 |
| Bois de rose, Brazil, cns. | lb. | 1.70 | - 1.75 |
| Cade, USP IX (see Oil, juniper tar). | | | |
| Cajeput, tech., dms. | lb. | .65 | - .70 |
| USP IX, cns. | lb. | .75 | - .80 |
| Calamus, cns. | lb. | 8.25 | - 8.50 |
| Camphor, sassafrassy, cns. | lb. | .25 | - .26 |
| dms. | lb. | .22 | - .23 |
| white, cns. | lb. | .25 | - .26 |
| dms. | lb. | .23 | - .23 |
| Cananga, native, cns. | lb. | 2.25 | - 2.30 |
| refined, cns. | lb. | 2.60 | - 2.65 |
| Capsicum (oleoresin), USP VIII, cns. | lb. | 3.50 | - 3.75 |
| Caraway, USP, cns. | lb. | 5.50 | - 5.60 |
| Cardamom, bots. | lb. | 16.00 | -18.00 |
| Cassia, USP, cs., dms. | lb. | 1.50 | - 1.55 |
| Castor, blown, one-way dms., c.l. | lb. | .11¾- | — |
| l.c.l. | lb. | .12½- | — |
| cold pressed, USP, bbls., c.l., | lb. | .10¾- | — |
| l.c.l. | lb. | .11 | - — |
| cns. (1-gal.), l.c.l. | lb. | .14 | - — |
| dms. (returnable), c.l. | lb. | .10 | - — |
| l.c.l. | lb. | .10¾- | — |
| (5-gal.), l.c.l. | lb. | .12 | - — |
| tanks | lb. | .09¼- | — |
| Oil, castor, dehydrated, dms., c.l. | lb. | .1310- | — |
| l.c.l. | lb. | .13¾- | — |
| tanks | lb. | .12¾- | — |
| extracted No. 3, tech., bbls., c.l. | lb. | .09¾- | — |
| l.c.l. | lb. | .10¼- | — |
| dms. (returnable), c.l. | lb. | .09¾- | — |
| l.c.l. | lb. | .10¼- | — |
| tanks | lb. | .09 | - — |
| sulphonated, 50% (42% fat), dms., c.l. | lb. | .07 | - — |
| l.c.l. | lb. | .08 | - — |
| 75% (63% fat), dms., c.l. | lb. | .09¾- | — |
| l.c.l. | lb. | .10¾- | — |
| 80% (68% fat), dms., c.l. | lb. | .10 | - — |
| l.c.l. | lb. | .11 | - — |

Castor oil, USP, and No. 3, prices are dlvd. all points between N.Y. and Philadelphia, Albany, and N. E. States; Chicago c.l. prices ¾c. higher than N. Y.; l.c.l. prices ¾c. higher than N. Y.; one-way drums, ¼c. higher, all points.

| | | | |
|---|---|---|---|
| Cedarleaf, cs. | lb. | .90 | - .95 |
| dms. | lb. | .85 | - .90 |
| Cedarwood, Oregon, cns., dms., | lb. | .28 | - .30 |
| Southern, cns., dms. | lb. | .22 | - .25 |
| Celery, bots. | lb. | 15.00 | -16.00 |
| Chaulmoogra, USP, cns. | lb. | .72½- | — |
| Chinawood, dms. | lb. | .26¾- | .27 |
| tanks | lb. | .25¾- | — |
| Cinnamon, Ceylon, bots. | lb. | 14.75 | -30.00 |
| Citronella, Ceylon, cns. | lb. | .39 | - .40 |
| dms. | lb. | .37 | - .38 |
| Java, cns., dms. | lb. | .36 | - .38 |
| Clove, makers, USP, cns. | lb. | 1.10 | - 1.15 |
| dms. | lb. | 1.05 | - 1.10 |
| Coconut, Manila, Crude, tanks, | lb. | .02¾- | — |
| edible, 76°, dms. (returnable), c.l. | lb. | .07½- | — |
| l.c.l. | lb. | .08 | - — |
| tanks | lb. | .06¾- | — |
| Cod, Newf., bbls. | gal. | .60 | - — |
| Codliver, med., USP, bbls. | bbl. | 70.00 | -75.00 |
| Coriander, bots. | lb. | 15.00 | -16.00 |
| Corn, crude, tanks, wks. | lb. | .05½ | Nom. |
| rfd., bbls. | lb. | .08 | - .08¼ |
| Cotonseed, cooking, bbls. | lb. | .07½- | — |
| salad, bbls. | lb. | .07¾- | — |
| Creosote (see C). | | | |
| Croton, N. F., cns. | lb. | 2.50 | - 2.75 |
| Cubeb, USP, cns. | lb. | 3.00 | - 3.25 |
| Crude (see Petroleum, crude). | | | |
| Cumin, bots. | lb. | 8.50 | - 9.00 |
| Cypress, bots. | lb. | 5.25 | - 5.50 |
| Degras (see D). | | | |
| Diesel, Bayonne, bulk. | bbl. | 1.70 | - 1.75 |
| California, f.o.b. San Francisco, truck. | gal. | .05½- | — |
| Dill seed, bots. | lb. | 4.50 | - 5.00 |
| weed, bots. | lb. | 5.25 | - 5.50 |
| Dip (see L). | | | |
| Erigeron, cns. | lb. | 2.00 | - 2.50 |
| Eucalyptus, cns. | lb. | .65 | - .67 |
| dms. | lb. | .63 | - .65 |
| Fennel, sweet, cns. | lb. | 2.05 | - 2.15 |
| Fuel, bunker, California, tide-water. | bbl. | .75 | - .80 |
| Gulf Coast, at terminal. | bbl. | .80 | - — |
| Louisiana, Arkansas, 10-14, | bbl. | .70 | - |
| N.Y. and N.J. terminals. | bbl. | 1.15 | - 1.25 |
| North Texas, 18-22. | bbl. | .72¾- | .77½ |
| 24-26, zero cold test. | bbl. | 1.00 | - — |
| Oklahoma, 18-22. | bbl. | .72¾- | .77½ |
| 24-28, zero cold test. | bbl. | 1.00 | - — |
| 24-28, 15 and above. | bbl. | .80 | - |
| Pennsylvania, 36-40. | gal. | .04½- | .05 |
| Furnace, Bayonne, 1 bulk, refinery. | gal. | .0510- | .0550 |
| 2, bulk, same basis. | gal. | .04½- | — |
| 4, bulk, same basis. | gal. | .04½- | — |
| Louisiana - Arkansas, 32 - 36, light straw. | gal. | .03¼- | .03½ |
| Oklahoma, 28-32. | gal. | .03¼- | .03⅜ |
| 32-36 | gal. | .03⅜- | .03½ |
| 36-38 | gal. | .03⅜- | .04 |
| 38-40 zero, 60 e.p. | gal. | .03½- | .03⅝ |
| Fusel (see F). | | | |
| Gas, 27 plus, Bayonne, bulk. | gal. | .0410- | — |
| Gulf Coast, bulk. | gal. | .03¼- | — |
| Group 3, bulk. | gal. | .02⅜- | .03 |
| Gaultheria (see Oil, wintergreen leaf). | | | |
| Geranium, Algerian, rose, cns., | lb. | 12.25 | Nom. |
| Bourbon, cns. | lb. | 12.00 | Nom. |
| Turkish (see Palmarosa). | | | |
| Grapefruit, cns. | lb. | 1.60 | - 1.65 |
| Grapseed, dom., dms. | lb. | .45 | - .50 |
| imported, dms. | lb. | .15 | - .20 |
| Ginger, dist., bots. | lb. | 4.10 | - 4.25 |
| Guaiac wood, concrete, bots. | lb. | 3.00 | - 3.10 |
| Haarlem, imp., bots. | gross | No prices | |
| Hemlock, cns. | lb. | .85 | - .90 |
| Juniper berry, USP XI, cns. | lb. | 5.75 | Nom. |
| wood, tech., cns. | lb. | .50 | - — |
| Juniper tar, USP XI, cns. | lb. | .39 | - .40 |
| Lard, common, 1, bbls. | lb. | .07¾- | — |
| 2, bbls. | lb. | .07½- | — |
| extra, bbls. | lb. | .08¼- | — |
| 1, bbls. | lb. | .08 | - — |
| winter, strained, bbls. | lb. | .08½- | — |
| prime, burning, bbls. | lb. | .09 | - — |
| prime, ined., bbls. | lb. | .08¾- | — |
| Laurel, bots. | lb. | 4.50 | - 4.60 |
| Lavandin, cns., 25 lbs. | lb. | 3.25 | Nom. |
| Lavender flower, French, 50% ester, cns. | lb. | No stocks | |
| 38-42% ester, cns. | lb. | 7.50 | - 7.75 |
| 35-38% ester, cns. | lb. | 5.50 | - 5.75 |
| 30-32% ester, cns. | lb. | 5.00 | - 5.25 |
| garden, cns. | lb. | .55 | - .70 |
| spike, Spanish, tech., cns. | lb. | 1.40 | - 1.60 |
| dms. | lb. | 1.35 | - 1.55 |
| Lemon, Calif., cns. | lb. | 3.25 | - — |
| Messina, coppers, cns. | lb. | 5.00 | Nom. |
| Terpeneless, Type 1. | lb. | 10.50 | -16.50 |
| Type 2. | lb. | 8.35 | -14.50 |
| Lemongrass, native, cns., dms., | lb. | .78 | - .80 |
| Lime, dist., cns. | lb. | 4.50 | - 4.75 |
| expressed, cns. | lb. | 7.50 | - 7.75 |
| Terpeneless, Type 1. | lb. | 70.00 | -78.00 |
| Type 2. | lb. | 42.00 | -46.50 |
| Linaloe wood, cns. | lb. | 1.60 | - 1.65 |
| Linseed, raw, dms., c.l. | lb. | .0870- | .0890 |
| l.c.l., 10 to 69. | lb. | .0910- | .0930 |
| 5 to 9. | lb. | .0930- | .0950 |
| less than 5. | lb. | .0950- | .0970 |
| tanks | lb. | .0810- | .0830 |

Boiled linseed oil .004 cent over raw.

| | | | |
|---|---|---|---|
| Lovage, bots. | lb. | 41.25 | -60.00 |

Lubricating, at refinery (including U.S. tax 4c. per gal):—California (f.o.b. San Francisco), green, 70, 80,100 vis. at 210° F., tanks. gal. .17 - .17½

200, 300, 500, 750 vis., at 100° F., tanks. gal. .15 - 16½

pale, 75, 100, 200, 300, 500, 750 vis., at 100° F., tanks. gal. .13½- .16½

red, 100, 200, 300, 500 vis., at 100° F., tanks, gal. .13½- .16

Oklahoma, bright stocks, 100-110 D, color 4.0-10 pour, tanks. gal. .15 - —

15-25 pour, tanks. gal. .15½- —

150-160 D, color, 4½, 0-10 pour, tanks. gal. .15½- —

15-25 pour, tanks. gal. .15½- —

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# U.S.I. CHEMICAL NEWS

December ★ A Monthly Series for Chemists and Executives of the Solvents and Chemical Consuming Industries ★ 1940

## See New Vanadium Source in Western Phosphate Rocks

### Economical Recovery Possible By Solvent Extraction Process

LEONIA, N. J.—The phosphate deposits of Wyoming, Utah, Idaho, and Montana offer a source from which vanadium can be economically extracted, it is claimed in a patent granted jointly to inventors here and in New York. Efficiency of the process, it is said, depends on the use of solvents.

Western phosphate rock, it is said, has taken on greater importance as a source of phosphoric acid, as a result of increased demand for the acid in the manufacture of "double" and "triple" superphosphates. It is known that these rocks contain an appreciable amount of vanadium, which appears in the final phosphoric acid solution.

**Converted to Pentoxide**

The inventors propose to recover the vanadium content by a method that is described as simple and effective. The vanadium content of the acid solution is first converted to the pentoxide form by an oxidizing agent such as potassium persulphate. The vanadium content is then extracted, it is claimed, by the action of a selective solvent. Suitable solvents, according to the inventors, include ethyl ether, isopropyl ether, ethyl acetate,

(*Continued on next page*)

## *New Coating Makes Paper Moisture- and Odor-proof*

WILMINGTON, Del.—A new composition that can be applied to paper in a continuous film makes the paper substantially proof against moisture, odors, and vapors, according to a manufacturer here.

Basis of the coating is said to be a granular white material, made by completely reacting chlorine and pure, pale crepe rubber. It is said that the material is soluble in many common solvents and that it deposits clear films.

For paper coatings, the material is usually mixed with a plasticizer such as dibutyl phthalate, it is reported. Dibutyl phthalate is chosen, according to the manufacturer, because it helps to develop excellent moisture- and vapor-proofness in the finished coating. In addition, it has the advantage of being free from odor.

**Dibutyl Phthalate is produced by U.S.I.**

## Report Ethyl Cellulose Improves Spirit Varnish

LOUISVILLE, Ky.—Moisture resistance, hardness, and abrasion resistance of spirit varnishes can be substantially improved by substituting ethyl cellulose for small percentages of the resin content, it is indicated by investigations carried on here.

Studies were made of pontianak and Manila resins, using a solvent consisting of 75% alcohol and 25% toluene. All qualities investigated showed substantial improvement, it is claimed, when ethyl cellulose was added.

# New Acetone Uses Found, Sales Volume Continues on Up Trend

### Demand Continues Strong in Existing Fields, Many Additional Markets Seen in Novel Solvent and Raw Material Applications

Uncovery of many novel applications for acetone is combining with continued demand in established fields to maintain sales at a high level for this widely used U.S.I. product. Export markets are up, as well as domestic, and acetone exports for the first half of the current year jumped to 12,128,410 pounds from a figure of 8,159,890 pounds for the same period last year. Many of the newer uses of acetone make use of its solvent properties; in other cases it is employed as a raw material for chemical manufacturing processes.

The rayon industry remains one of the largest users of acetone, and it is estimated that the consumption in rayon and allied fields in 1940 will reach a figure of 32,000 tons. Even in such well established fields as this, new acetone applications are coming to light, and a recent patent described a method for producing rayon yarns of improved extensibility, employing acetone.

**Applications in Cellulose Field**

Moistureproofing of regenerated cellulose sheets can be effected, it is claimed, by treating the sheets with acetone, which is said to displace existing liquids in the surface layers of the sheets. The sheets are then impregnated with a succinic acid-glycerol resin dissolved in acetone. A process for dyeing cellulose derivatives is said to consist in dissolving them in acetone with a diazogene compound and a coupling component.

Among the established uses of acetone, its application as a solvent for acetylene is a very important one. It is the most economical solvent known for this purpose, dissolving 25 times its own volume at ordinary temperatures and pressures. Other solvent uses include dry cleaning fluids, paint and varnish removers, natural and synthetic resins, bituminous paints, smokeless powder, TNT, artificial leather, lacquers, and dopes. A novel use is in the recovery of copper in the wire drawing process. The oily sludge

(*Continued on next page*)

## *U.S.I. Widens Its List Of Acetoacet-arylides*

U.S.I. announces that the following acetoacet-arylides are now in regular production:

Acetoacet-anilide
Acetoacet-ortho-chloranilide
Acetoacet-ortho-toluidide
Acetoacet-para-chloranilide
Acetoacet-ortho-anisidide

Laboratory or pilot plant samples have been prepared of these additional items, which can be made in larger quantities if sufficient demand appears:

Acetoacet-para-phenetidide
Benzoylacet-anilide
Biacetoacetyl-meta-toluylenediamine
Biacetoacetyl-para-phenylenediamine
Acetoacet-para-nitroanilide
Acetoacet-2,5-dichloranilide
Acetoacetyl-alpha-naphthylamine
Acetoacet-cumidide (pseudo)
*N, N'*-Biacetoacetbenzidide

In addition to these products, on which inquiries are invited, U.S.I. is in a position to make laboratory samples of other acetoacet-arylides at the suggestion of prospective customers.

## Produces "Synthetic" Hardwood

RIDGEFIELD PARK, N. J.—A product similar to hardwood can be prepared by a process for injecting natural or synthetic resins into green wood, at the same time extracting the sap and moisture, it is reported here.

The "synthetic" hardwood, it is claimed, is resistant to warping, rotting, and fire, and can be produced at lower cost than the natural hardwoods it is intended to replace.

**Solvent in the manufacture of artificial textiles, vehicle in liniments—these represent two of the extraordinarily diversified uses of acetone.**

ADVERTISEMENT—*This entire page is a paid advertisement.*

December ★ **U.S.I. CHEMICAL NEWS** ★ 1940

## Drying Components of Marine Oils Extracted By Ethyl Acetoacetate

MILWAUKEE, Wis.—A novel application for ethyl acetoacetate in extracting the drying constituents of fish oils is revealed in a patent granted to an inventor here.

Ethyl acetoacetate is particularly valuable in refining raw oils such as sardine or menhaden, according to the inventor, because it dissolves most of the unsaturated components which are useful in paints and varnishes, while at the same time it has low solvent powers for the undesirable "break" and color constituents.

**Ethyl Acetoacetate is produced by U.S.I.**

## *Acetone Sales Volume Up*

(*Continued from previous page*)

resulting in the drawing process is extracted with acetone, it is said, removing the oil and leaving a residue of fine copper powder. A patented plastic wood composition is said to incorporate vinyl resins and acetone.

As a raw material for chemical manufacture, acetone has exceptional potentialities. Benzylidine, bromoform, chlorbutanol, chloracetone, diacetone, chloroform, iodoform, indigo, ionone, isoprene, and mesityl oxide are among the more familiar compounds that can be produced from acetone. Oxidation inhibitors for rubber are commonly prepared by the reaction of acetone with an aromatic amine. A recent patent in this field covers an inhibitor prepared by heating acetone and a *p*-amino-substituted diaryl thio ether in the presence of iodine. A new gum inhibitor for oils and cracked gasoline is described as a reaction product of acetone and pyrocatechol.

### Preparation of Bis-phenols

Still other uses for acetone include a process for preparing bis-phenols by treating phenols with acetone in the presence of an inorganic acid; manufacture of ketene and its homologs by pyrolysis of acetone in contact with copper; preparation of fusible resins by treating an aldehyde with acetone in the presence of a catalyst.

In the medical field, acetone is extensively used as a vehicle for liniments and in the treatment of purulent wounds. This, of course, is in addition to the medical use of many of the compounds already mentioned, in which acetone is used as a raw material.

As a leading producer of solvents, U.S.I. supplies acetone of the highest quality for these diversified requirements.

## *Here's Pleasant News For Cigarette Smokers*

SOUTH ORANGE, N. J.—No loose shreds of tobacco will find their way into your mouth if the end of your cigarette is impregnated with a solution of ethyl cellulose in anhydrous ethyl alcohol, it is claimed by an inventor here. The solution, it is said, stiffens and waterproofs the paper at the mouth end of the cigarette, and binds the tobacco shreds together so that they do not become loose.

The inventor also claims that the composition is non-toxic and has absolutely no effect on the taste or odor of the smoke. Best news of all is the claim that absent-mindedly lighting the wrong end produces no ill effects.

**U.S.I. is a leading producer of Anhydrous Ethyl Alcohol.**

## Claims Pipe Seal Immune To Alcohol, Oils, Steam

BROOKLYN, N. Y.—Use of blown castor oil, produced by oxidizing or polymerizing raw castor oil, is desirable in packing and sealing compounds exposed to heat, vibration, and chemicals, it is claimed in a patent granted to an inventor here.

The blown castor oil, the inventor claims, is substantially insoluble in gasoline, gasoline-alcohol mixtures, fuel oils, and alcohol-containing preparations, such as anti-freeze. Moreover, it is said that the seal is not affected by heat, hot water, or steam.

A typical composition is said to have the following proportions:

| | |
|---|---|
| Philippine gum | 6 lbs. |
| Ethyl alcohol | 1 gal. |
| Blown castor oil | 1½ gal. |
| Talc | 25 lbs. |

## *Vanadium Recovery Process*

(*Continued from previous page*)

butyl acetate, and a number of other organic compounds.

Several methods have been proposed for recovering the metal values from the organic solution. For example, it is said that the solution may be brought in contact with water, allowing a certain quantity of the metal value to pass into the aqueous phase. The vanadium in the water phase can then be reduced to the tetravalent state, in which it is largely insoluble in the organic solvent, and the water phase can be recycled.

**Ethyl Ether, Ethyl Acetate, and Butyl Acetate are produced by U.S.I.**

## TECHNICAL DEVELOPMENTS

*Further information on these items may be obtained by writing to U.S.I.*

**New rust preventives** are said to incorporate an ingredient that provides a homogeneous, non crystalline film, with a high degree of cohesion and adhesion to metal. It is reported that products can be supplied to meet industrial specifications. **(No. 400)**

U S I

**A transparent floor finish** is unaffected by extreme conditions of acidity or alkalinity, according to the maker. It is claimed that dried films of the product have been immersed in dilute sulphuric acid, carbolic acid, and sodium hydroxide solutions without damage to finish or gloss. **(No. 401)**

U S I

**Fugitive tints** for identifying cotton, viscose, and acetate staple fibers are described as oil-soluble dye concentrates to be added to the oil used in conditioning cut staple fibers. Eight colors are said to be available. **(No. 402)**

U S I

**Sodium chlorite** is said to be strong enough to bleach cotton, rayon, wood pulp and other cellulose fibers, without attacking the fibers themselves. It is claimed that the sodium chlorite will bleach in both acid and alkaline solutions. **(No. 403)**

U S I

**Textile colors** can be applied directly to cotton, rayon, acetate, and other fabrics by standard textile printing machinery, and require no after-treatment, it is claimed. It is said that the colors have excellent fastness to light and to repeated washings. **(No. 404)**

U S I

**A mildew preventive** is said to be especially designed for incorporation in paints and plastic materials to prevent the growth of mold, mildew, spores, and algae. It is also claimed that the product promotes even spreading, increases adhesion and flexibility of paint film. **(No. 405)**

U S I

**A new ink** that is said to be especially suitable for laundry marking is described as resistant to soap, lye, bleaching fluid, and oxalic acid. **(No. 406)**

U S I

**Stable emulsions** of mineral oil, pine, oil, toluol, and other oils and waxes, containing as high as 6% hydrochloric acid and other strong electrolytes, have been prepared with the aid of a new emulsifying agent, it is claimed. Applications are said to include paper, leather, textile, and cosmetic industries. **(No. 407)**

U S I

**Water-treating equipment** is said to have been developed for removing carbon dioxide from water that has been treated in carbonaceous hydrogen zeolite softeners. It is claimed that the treatment also oxidizes any soluble iron present, so that it can be filtered out. **(No. 408)**

U S I

**A deep black finish** can be produced on steel by a new low-temperature process, it is claimed. It is said that the dimensions of treated parts remain unchanged, and that the finish is resistant to rust and wear. It is also reported that temperatures used are not high enough to affect heat-treated parts. **(No. 409)**

**U.S.I. INDUSTRIAL CHEMICALS, INC.**

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C. P. 96%
Pure (190 proof)
Specially Denatured
Completely Denatured
U. S. I. Denatured Alcohol Anti-freeze)
*Super Pyro Anti-freeze
*Solox Proprietary Solvent

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**ESTERS, ACETATES**
Acetic Ether
Amyl Acetate
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**ESTERS, ETHYL**
*Diatol
Diethyl Carbonate
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Ethyl Formate
Ethyl Lactate

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**ESTERS, PHTHALATES**
Diamyl Phthalate
Dibutyl Phthalate
Diethyl Phthalate
Dimethyl Phthalate

**OTHER ESTERS**
Amyl Propionate
Butyl Propionate
Dibutyl Oxalate

**INTERMEDIATES**
Acetoacetanilid
Acetoacet-o-chloranilid
Acetoacet-o-toluidid
Ethyl Acetoacetate
Sodium Ethyl Oxalacetate

**ETHERS**
Ethyl Ether
Ethyl Ether Absolute—A.C.S.

**OTHER PRODUCTS**
Acetone, C.P.
Collodions
*Curbay Binders
*Curbay-X (Powder)
Derex
Ethylene
Methyl Acetone
Nitrocellulose Solutions
Potash, Agricultural
*Vacatone
Curbay B-G

Oil, lubricating, at refinery, Oklahoma, bright stocks, 150160 E, color 5½, 15-25 pour, tanks..gal. .13½- —
190-200 D, color 4¼, 15-25 pour, tanks..gal. .12½- —
neutrals, 0-10 pour, 150 vis., 3 colors, tank..gal. .08 - —
180 vis., 3 color, tanks, gal. .09 - —
4 color, tanks.....gal. .09 - —
200 vis., 3 color, tanks.. gal. .06½- —
4 color, tanks.....gal. .05½- —
250 vis., 3 color, tanks, gal. .10 - —
4 color, tanks.....gal. .10 - —
280 vis., 3 color, tanks, gal. .10½- —
4 color, tanks.....gal. .10 - —
10-25 pour prices are ½c. per gallon less than zero to 10° pour.
Pennsylvania, bright stocks, 6 color, 140-150 vis., 545-550 flash, 10 pour, tanks..gal. .14½- —
15 pour, tanks.....gal. .13½- —
25 pour, tanks.....gal. .12 - .13
cylinder oil, 600 flash, tanks..gal. .09 - .11
630 flash, tanks....gal. .11 - .12
600 steam refined, tanks, gal. .07 - .08
650 steam refined, tanks, gal. .08 - .10
Neutrals, 150 vis., 70°F., 8 color, 400-405 flash, zero pour, tanks..gal. .22½- —
10 pour, tanks.....gal. .21½- —
15 pour, tanks.....gal. .20½- —
25 pour, tanks.....gal. .19 - .20
200 vis., 70°F., 3 color, 420-422 flash, zero pour, tanks..gal. .24½- —
10 pour, tanks.....gal. .23½- —
15 pour, tanks.....gal. .22½- —
25 pour, tanks.....gal. .21 - .22
Mace, dist., cns., dms.....lb. 2.25 - 2.30
Mandarin, superior, coppers..lb. 8.00 -11.00
Menhaden, crude, tanks, fut., Balto..gal. .30 Nom.
refd., alkali, dms.....lb. .0800- —
tanks.....lb. .0740- —
blown, dms.....lb. .0820- —
kettle-bodied, dms.....lb. .0920- —
light-pressed, dms.....lb. .0740- —
tanks.....lb. .0680- —
Mineral white (see Oil, white mineral).
Mustard, artif., USP., bots., cns..lb. 1.50 - 1.60
dist., natural, bots.....lb. 8.50 - 9.00
Neatsfoot, 20° cold test, bbls., lb. .15¼- —
extra, bbls.....lb. .08¼- —
1, bbls.....lb. .08 - —
prime, bbls.....lb. .08½- —
pure, bbls.....lb. .10¾- —
sulphonated, common, 25% moisture, dms..lb. .10½- —
Neroli, bots.....lb. 200.00- 325.00
Nutmeg, dist., cns., dms....lb. 2.25 - 2.30
Oleo, 1, bbls.....lb. .07¾- —
2, bbls.....lb. .07¼- —
Oiticica, dms.....lb. .18½- .19½
Olibanum, bots.....lb. 5.00 - 5.25
Olive, denat., dms.....gal. 2.40 Nom.
edible, dms.....gal. 3.25 Nom.
foots, dms.....lb. .10½ Nom.
sulphonated, 50%, (42% fat), dms., c.l..lb. .08½- —
l.c.l.....lb. .10¾- —
75% (63% fat), dms., c.l..lb. .12½- —
l.c.l.....lb. .13½- —
50% (69% fat), dms., c.l., lb. .127 - —
l.c.l.....lb. .137 - —
Orange, sweet, dist., cs.....lb. .90 - —
expressed, African, cns., dms., lb. 1.40 - 1.50
Calif., cns.....lb. 2.00 - —
Florida, cns.....lb. 1.25 - 1.30
Messina, USP, coppers...lb. 8.00 Nom.
West Indies, cns.....lb. 2.50 - 2.60
terpeneless .....lb. 42.00 -50.00
Origanum, cns.....lb. 1.05 - 1.45
Palm, Niger, dms.....lb. .03½ Nom.
shipments .....lb. .03 Nom.
softs, 12½%, bulk, shipt....lb. .02 Nom.
Sumatra, shipt., bulk.....lb. .02 Nom.
Palmarosa, cns.....lb. 2.50 - 2.60
Paraffin, 320° flash, 60-70 vis., tanks, G. S..gal. .05¼- —
350° flash, 70-80 vis., tanks, G. S..gal. .05¼- —
80-85 vis., bbls., extra, Ind. refy..gal. .12 - —
350° flash, 100-105 vis., bbls., extra, Ind. refy..gal. .14 - —
300° flash, 100-110 vis., tanks, G. S..gal .05¾- —
Patchouli, bots., cns.....lb. 5.00 - 6.00
Peanut, crude, dom., tanks..lb. .05½ Nom.
refd., edible, bbls.....lb. .07⅞ Nom.
Pennyroyal, dom., cns.....lb. 3.00 Nom.
import, cns.....lb. 2.25 - 2.50
Peppermint, natural, cns., dms., lb. 2.70 - 2.95
redist., USP, cns., dms....lb. 2.95 - 3.20
Perilla, dms.....lb. .18 Nom.
tanks .....lb. .17½ Nom.
Petitgrain, Paraguay, cns....lb. 1.35 - 1.40
Pimento berry, cns.....lb. 4.20 - 7.25
leaf, cns.....lb. 2.25 - 2.50
Pine, dest.-dist., straw-color, dms., dlvd., E. ports..gal. .50 - .55
steam-dist., dms.....gal. .59 - —
tanks .....gal. .54 - —
Pinenedle, Siberian, cns....lb. 1.25 - 1.30
Putty, bbls., E. Segundo, Richmond, Cal..gal. .22½- —
contracts .....gal. .19½- —
Whiting, Ind.....gal. .23 - —
dms., c.l., Boston, Providence, gal. .25 - —
l.c.l., same basis.....gal. .27 - —
tanks, same basis.....gal. .16 - —
Martinez, Cal.....gal. .26 - —
Rapeseed, blown, dms.....lb. .17½- —
denat., bbls.....gal. 1.02 Nom.
Red, dist., or saponif., dms., dlvd..lb. .06¾- .07¼
tanks, dlvd.....lb. .06¼- —
Rose, artif., bots.....oz. 1.35 - 2.25
natural, coppers.....oz. 5.50 -22.50
Rosemary, Spanish, cns.....lb. .59 - .64
dms.....lb. .54 - .59
Rosin, 1st rectfd., dms.....gal. .42 - —
2d rectfd., dms.....gal. .44 - —
3d rectfd., dms.....gal. .48 - —
Rue, bots.....lb. 3.00 - 3.25
Sage, cns.....lb. 1.00 - 2.75
Sandalwood, E.I., USP, cns..lb. 4.95 - 5.25
Mysore, cns., case lots.....lb. 6.50 - 6.75
Sardine, crude, fut., tanks, Pac. Cst..gal. .40 Nom.
refd., alkali, dms.....lb. .0800- —
tanks .....lb. .0740- —
kettle-bodied, dms.....lb. .0920- —
light-pressed, dms.....lb. .0740- —
tanks .....lb. .0680- —
Sassafras, artif., cns.....lb. .75 - —
dms.....lb. .72 - —
natural, cns., dms.....lb. 1.00 - 1.25
Savin, cns.....lb. 5.50 - 6.00
Savory, cns.....lb. 3.50 - 3.75
Sesame, crude, coast, tanks..lb. .07¼- —

Oil, shingle stain, bbls., c.l., works..gal. .19 - —
l.c.l., works.....gal. .20 - —
tanks, works.....gal. .14 - —
Snakeroot, Canada, cns.....lb. 9.50 -10.50
Soybean, dom., crude, dms...lb. .06 - .06½
tanks .....lb. .05¼- —
refd., dms.....lb. .07¼- .08
tanks .....lb. .06½- .07
Spearmint, dms.....lb. 2.25 - 2.35
Sperm, bleach, 38°, dms....lb. .1100- —
45°, dms.....lb. .1060- —
natural, dms.....lb. .0980- —
Spruce, cns., dms.....lb. .80 - .85
Sweet, birch, North, cns.....lb. 2.25 - 2.55
South, cns.....lb. 1.55 - 1.70
Tall, crude, dms., c.l., works, ton. 40.00 - —
l.c.l., works.....ton. 45.00 -50.00
tanks, works.....ton. 30.00 - —
distilled, dms., c.l., dlvd...lb. .05½- .07
l.c.l., dlvd.....lb. .06½- .06¾
tanks, dlvd.....lb. .05 - .06¾
refined, dms., c.l., works...lb. .04 - —
l.c.l., works.....lb. .04¼- —
tanks, works.....lb. .03½- —
Tallow, acidless, bbls.....lb. .07¾- —
tanks .....lb. .07¼- —
Tansy, cns.....lb. 4.25 - 4.50
Tar, pine, com'l, dms., c.l., dlvd. E. cities..gal. .26 - —
E. ports, c.l.....gal. .25 - —
l.c.l.....gal. .27 - —
tanks, dlvd. E. cities....gal. .20 - —
rectfd., USP, bbls., l.c.l., dlvd. E. ports..gal. .55 - —
Tar acid (see T).
Teaseed, crude, dms.....lb. .17½ Nom.
Tea Tree (see Oil, Ti tree).
Thyme, NF, red, dms.....lb. .80 - 1.75
white, dms.....lb. .95 - 1.95
Tung (see Oil, chinawood).
Ti tree, cns.....lb. 2.30 - 2.80
Turkey red (see castor, sulphonated).
Turpentine (see T).
Turtle, cns.....gal. 7.00 - —
Valerian, bots.....lb. 8.00 - 9.00
Vetiver, bots.....lb. 4.75 - 8.00
Whale, ref., natural, dms..lb. .0910- —
winter, bleach, dms.....lb. .0950- —
Wheat germ, cns., dms....gal. 17.50 -25.00
White, mineral, dom., dms., tech., 50-60 vis., dms.gal. .31 - .38
65-75 vis., dms.....gal. .33 - .40
80-90 vis., dms.....gal. .34 - .41
mineral, USP, 80-90 vis., dms. gal. .36 - .43
95-105 vis., dms.....gal. .40½- .47½
125-135 vis., dms.....gal. .46 - .53
140-150 vis., dms.....gal. .49 - .55
175-185 vis., dms.....gal. .53½- .60½
200-210 vis., dms.....gal. .56½- .63½
320-330 vis., dms.....gal. .64 - .71
335-345 vis., dms.....gal. .65 - .72
Russian, 80-90 vis., dms.gal. No prices
145-155 vis., dms.....gal. No prices
175-185 vis., dms.....gal. No prices
335-345 vis., dms.....gal. No prices
Wintergreen, natural, North, cns..lb. 4.35 - 5.00
South, cns.....lb. 3.05 - 3.75
synth, (see Methyl salicylate).
Wood (see Oil, chinawood).
Wormseed, cns.....lb. 3.60 - 3.70
Wormwood, cns.....lb. 4.50 - 4.60
Ylang-ylang, Bourb., bots., cns, lb. 7.00 Nom.
Manila, bots.....lb. 23.00 Nom.
Olivine, aggregate, c.l., mines, ton. 7.00 -11.00
Lumps, same basis.....ton. 7.00 - —
Spalls, same basis.....ton. 5.00 - —
ground, 325 mesh c.l., mines, ton. 20.00 - —
200 mesh, c.l., mines....ton. 17.00 - —
100 mesh, c.l., mines....ton. 15.00 - —
20 mesh to dust.....ton. 12.00 - —
Opium USP, cns.....lb. 11.50 -12.50
gran., cns.....lb. 12.50 -13.50
powd., cns.....lb. 12.50 -13.50
Orange Lake, Persian, bbls....lb. .30 - .45
Mineral, Amer., bbls., 5 tons, dlvd. Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. of Cascade Mts. in Ore. and Wash..lb. .11½- —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash..lb. .12 - —
Colo., Mont., N. M., Wyo..lb. .11¾- —
Other points.....lb. .11¼- —
smaller lots, dlvd., Ala. etc..lb. .12 - —
Ariz., etc.....lb. .12½- —
Colo., Mont., N. M., Wyo..lb. .12¼- —
Other points.....lb. .11¾- —
French, Tours, casks, ex dock..lb. .13½- —
kgs., ex dock.....lb. .14½- —
Molybdate, bbls.....lb. .31 - —
Toner, bbls.....lb. .80 - —
Orangeflower petals, cs.....lb. .45 - .50
Orange peel, bitter, bls.....lb. .09 - .10
sweet, bls.....lb. .11 - .12½
Orris root, Florentine, bgs.....lb. .80 Nom.
fingers, cs.....lb. 1.50 Nom.
powd., bbls., bxs.....lb. .85 Nom.
Verona, bls.....lb. .75 Nom.
powd., bgs., cns.....lb. .50 Nom.
Orthoanisidin, bbls.....lb. .70 - —
Orthochloraniin, dms.....lb. .60 - .75
Orthochlorophenol, dms.....lb. .32 - —
Orthocresol, dms., c.l., works..lb. .16 - —
l.c.l., same basis.....lb. .16¼- —
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies..lb. .06 - —
l.c.l., same basis.....lb. .07 - —
100-lb. tins, same basis..lb. .08 - —
50-lb. tins, same basis..lb. .09 - —
tanks, same basis.....lb. .05¼- —
Orthodichlorobenzene prices west of Rockies 1c. per lb. higher.
Orthonitroaniiin, dms.....lb. .55 - —
Orthonitrochlorobenzene, dms..lb. .15 - .18
Orthonitroparachlorophenol, cns.lb. .75 - —
Orthonitrotoluene, dms.....lb. .09 - —
Orthophenetidin, dms.....lb. .80 - —
Orthotoluidin, dms.....lb. .19 - —
Osage orange extract, cryst., bbls. lb. .21 - —
liquid, 42°, bbls.....lb. .09 - —
51° bbls.....lb. .10 - —
Oxyquinolin sulphate, cns., 100-lbs., works..lb. 3.50 - —
bots., cns., 1-50 lbs.....lb. 3.65 - 4.00
Orthotoluene hydrochloride, dms.lb. .22 - —
Sulphonate, kgs.....lb. 2.00 - 2.05

# P

Papain, powd., cs.....lb. 1.40 - 1.45
Paprika, Algerian, bgs.....lb. .34 - .35
Bulgarian, bgs.....lb. .29 - .29½
Hungarian, extra fancy, bgs.lb. .42 Nom.
medium, bgs.....lb. .41 Nom.
Portuguese, extra fancy, bgs.lb. .26½- .27½
fancy, bgs.....lb. .25½- .26½
Spanish, fancy, cs.....lb. .38 - .40
Parachlorophenol, dms.....lb. .32 - —
Paracymene, refd., dms.....gal. .75 - 1.25
Paradichlorobenzene, dms., c.l.lb. .11 - .12
l.c.l. .....lb. .12½- .13½
Paraffin, crude, scale, white, 122-124 A.m.p., bgs., c.l., Okla., refy..lb. .0285- —
bbls., c.l., N.Y.....lb. .0285- —
124-126 A.m.p., bgs., c.l., Okla., refy..lb. .0285- .03¼
bbls., c.l., N.Y.....lb. .0285- .03¼
yellow, 124-126 A.m.p., bbls., c.l., N.Y..lb. .02¾- —
fully refd., bgs., 123-125 A.m.p., bgs., c.l..lb. .0570- —
128-130 A.m.p., bgs., or loose, c.l..lb. .0570- —
131-133 A.m.p., bgs., or loose, c.l..lb. .0595- —
133-135 A.m.p., bgs., or loose, c.l..lb. .0625- —
135-137 A.m.p., bgs., or loose, c.l..lb. .0650- —
138-140 A.m.p., bgs., or loose, c.l..lb. .0725- —
142-145 A.m.p., bgs., or loose, c.l..lb. .0820- —
151-153 A.m.p., bgs., or loose, c.l..lb. .15 Nom.
Refined paraffin prices in cases are ½c. lb. higher than bags price; solid in tankcars is 5c. lower.
match, A.m.p. up to and incl. 110-112 bbls., c.l..lb. .03¼- —
semi-rfd., solid, 122-124 A.m.p., bgs..lb. .03 - —
Paraformaldehyde, dms., 1,000 lbs. or more, shipments, f.o.b. Perth Amboy, Philadelphia, or N. Y.,C..lb. .23 - —
100 to 900 lbs. shipments, same basis..lb. .24 - —
Paraldehyde, tech., 98%, 55 and 110-gal. dms., c.l., works..lb. .10 - —
l.c.l., works.....lb. .11¼- —
5 and 10-gal. dms., works..lb. .15 - —
USP, cs., cbys.....lb. .37 - .45
Paranitrophenol, kgs.....lb. .35 - —
Paranisidine, dms.....lb. .75 - —
Paranitroanilin, kgs., works...lb. .47 - —
Paranitrochlorobenzene, kgs...lb. .15 - —
Paranitrotoluene, kgs.....lb. .30 - —
Paraphenylenediamine, bbls...lb. 1.25 - 1.30
Paratoluenesulphonamide, bbls.lb. .70 - —
Paratoluidin, bbls.....lb. .48 - —
Pareira brava root, bls.....lb. .20 - .21
Paris green, dealer, dms., bbls., c.l., f.o.b. works, frt. alld..lb. .23 - .25
l.c.l., same basis.....lb. .24 - .26
Passion flower, herb, bls.....lb. .08 - .09
Patchouli leaves, bls.....lb. .28 - .30
Pellitory root, bls.....lb. .30 - .32
Pennyroial leaves, bls.....lb. .15 - .16
Pentane, norm., 28-38°, dms., c.l., G.3..gal. .11½- —
l.c.l., G.3.....gal. .16 - —
tanks, G.3.....gal. .08½- —
laboratory grade, dms., c.l., G.3, gal. .14 - —
l.c.l., G.3.....gal. .25 - —
Pepper, black, Alleppey, bags..lb. .07¾- —
Lampong, bags.....lb. .04 - .04½
Tellicherry, bags.....lb. .07½- .07¾
White, Java, Muntok, bags...lb. .07½- .08
Singapore, Muntok.....lb. .07½- .07½
Red, chillies, Japan, Hontaka. lb. .23½- .24
Mombassa, bgs.....lb. .27½- .28
Peppermint leaves, dom., bls...lb. .60 - .65
imports, bls.....lb. .90 Nom.
Perchlorethylene, dms., c.l., works, frt. alld., zone 1..lb. .08 - —
l.c.l., same basis.....lb. .08½- —
Zone 2, dms., c.l., works, frt. alld..lb. .08½- —
l.c.l., same basis.....lb. .09 - —
Zone 3, dms., c.l., works, frt. alld..lb. .09 - —
l.c.l., same basis.....lb. .09½- —
Zone 4, dms., c.l., f.o.b. stock points..lb. .09 - —
l.c.l., same basis.....lb. .09½- —
All prices on perchlorethylene are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Zone 1 includes the following states:—Conn., Md., N. Y., Va., Ky., Me., N. J., Vt., W. Va., Mo., N. H., Tenn., Ind., Ia., Pa., R. I., Ill., Mich., Minn., Wis., Del., Mass., N. C., O., Omaha, Neb.; Kansas City, Kansas. Zone 2 includes Ala., Kan., except Kansas City; N. D., Ga., Neb., except Omaha; S. D., Miss., Ark., S .C., La., Okla., and Fla. Zone 3 includes Colo., N. M., Wyo., Texas and Eastern Montana. Zone 4 includes Arizona, Western Montana, Idaho, Ore., Nev., Wash., Utah and Cal.
Peru, balsam, dms.....lb. .65 - .67
Petrolatum, amber, dms., c.l...lb. .02¾- —
l.c.l. .....lb. .03¾- —
amber, extra, dms.....lb. .03 - —
l.c.l. .....lb. .04 - —
white, cream, dms., c.l.....lb. .04 - —
l.c.l. .....lb. .05½- —
lily, dms., c.l.....lb. .04¾- —
l.c.l. .....lb. .06¼- —
snow, dms., c.l.....lb. .05½- —
l.c.l. .....lb. .07½- —
Petroleum, crude, bulk, at wells:—
California .....bbl. .60 - 1.71
Canada .....bbl. 2.07 - 2.10
Central West:—
Illinois .....bbl. .53 - 1.15
Lima .....bbl. .90 - —
Michigan .....bbl. .92 - 1.13
Princeton .....bbl. 1.05 - —
East Texas.....bbl. 1.10 - —
Gulf Coast.....bbl. .86 - 1.26
Kentucky, Tennessee.....bbl. 1.10 - 1.20
Louisiana, Arkansas.....bbl. .73 - 1.05
Mexico .....bbl. No prices
Midcontinent:—
North Texas.....bbl. .71 - 1.03
Oklahoma-Kansas ....bbl. .58 - 1.10
Pennsylvania, Ohio, West Virginia:—
Bradford, Allegany....bbl. 2.00 - —
Corning .....bbl. 1.12 - —
N. Y. Transit lines....bbl. 2.00 - —
Eureka lines.....bbl. 1.59 - —
S. W. Penn lines.....bbl. 1.65 - —
Lower district in National Transit lines..bbl. 1.88 - 1.93
Rocky Mountains.....bbl. .35 - 1.10
South Central and Southwestern Texas..bbl. .86 - 1.29
Texas Panhandle.....bbl. .67 - .96
West Texas.....bbl. .53 - .95
Ether, 30-60°, dms., c.l., G.3, gal. .14½- —
l.c.l., G.3.....gal. .25½- —
tanks, G.3.....gal. .12½- —
35-60°, dms., l.c.l., G.3....gal. .30½- —
40-75°, dms., c.l., G.3....gal. .14½- —
l.c.l., G.3.....gal. .25½- —
tanks, G.3.....gal. .13½- —
laboratory grade, dms., c.l., G.3..gal. .14½- —
c.l., G.3.....gal. .25½- —
10-gal. lots, G.3.....gal. .50½- —
Lacquer, diluent, at rfinery:—
California, 100 l.b.h., 200 e.p., tanks, dlvd., Los Angeles..gal. .11 - —
San Francisco..gal. .11½- —
f.o.b. Richmond.....gal. .11 - —
Willbridge, Ore., Fort Wells, Wash..gal. .12 - —

## Oil, Lub.—Phenylethylphenyl

Petroleum, lacquer-diluent, at refinery, East Coast, tanks, gal. .00½- .10
Group 3, toluol type, tanks, gal. .07¾- —
benzol type, tanks.....gal. .07¾- —
Naphtha, cleaners', at refinery:—
California (f.o.b. San Francisco), tanks..gal. .12 - —
East Coast, tanks.....gal. .09 - .10¼
Group 3, tanks.....gal .06¾- .07
tankwagon, Boston, ex tax, gal. .13¼- —
Bridgeport .....gal. .13¼- —
Chicago, inc. 4c. tax...gal. .18 - —
Decatur, inc. 4c. tax...gal. .1910- —
Des Moines, inc. 4c. tax, gal. .1800- —
Evansville, inc. ex tax.gal. .15 - .16
Milwaukee, inc. 5c. tax.gal. .2030- —
Minneapolis-St. Paul, inc. 5c. tax..gal. .20½- —
Newark, ex tax.....gal. .10¾- —
New York, ex tax.....gal. .10¼- —
Omaha, ex tax.....gal. .1490- .1590
Oklahoma City, ex tax.gal. .16½- —
Philadelphia, ex tax...gal. .13 - —
St. Louis, inc. 1c. tax.gal. .15½- —
Syracuse, 150 gals.....gal. .14½- —
smaller lots, galv. drums, gal. .10 - —
milk cans.....gal. .21 - —
high-solvency, aromatic, No. 1, over 70% arom., tanks, f.o.b. Bayway..gal. .20 - —
2, over 90% arom., same basis..gal. .21 - —
No. 3, same basis.....gal. .22 - —
8, tanks, f.o.b. Pamlsboro, N. J..gal. .16½- —
30, same basis.....gal. .17½- —
40, same basis.....gal. .17¾- —
V. M. & P., at refinery:—
California, 46.5, 264 l.b.p., 350 e.p., tanks, f.o.b. El Segundo..gal. .11 - —
Richmond .....gal. .11¼- —
Willbridge, Ore., Ft. Wells, Wash..gal. .12 - —
54-57, 190 l.b.p., 310 e.p., tanks, dlvd. Los Angeles, gal. .10 - —
San Francisco....gal. .10½- —
Portland, Seattle..gal. .11 - —
East Coast, tanks.....gal. .09¼- —
Group 3, tanks.....gal. .06¾- .07
tankwagon, Boston, ex tax, gal. .14¼- —
Chicago, inc. 4c. tax...gal. .17 - —
Des Moines, inc. 4c. tax.gal. .1890- —
Decatur, inc. 4c. tax...gal. .1910- —
Evansville, Ind., ex tax, gal. .1520- .1630
Milwaukee, inc. 5c. tax.gal. .2030- —
Minneapolis-St. Paul, inc. 5c. tax..gal. .20 - —
Newark, ex tax.....gal. .11¼- —
New York, ex tax.....gal. .10¼- —
Omaha, ex tax.....gal. .1490- .1590
Philadelphia, ex tax...gal. .13 - —
St. Louis, inc. 1c. tax.gal. .1570- —
Solvent, rubber, at refinery, California (f.o.b. San Francisco), bbls.....gal. .24 - —
East Coast, tanks.....gal. .09½- —
Group 3, light, 120 l.b.p., 250 e.p., tanks..gal. .06¾- .07
standard, 180 l.b.p., 288 e.p., tanks..gal. .06¾- .07
Stoddard (CS 8-33), at refinery:—
California (fo.b. San Francisco), tanks..gal. .11 - —
East Coast, tanks.....gal. .08¾- .09½
Group 3, tanks.....gal. .06¾- .06¾
tankwagon, Boston, ex tax, gal. .14 - —
Chicago, inc. 4c. tax...gal. .1640- —
Decatur, inc. 4c. tax...gal. .1860- —
Des Moines, inc. 4c. tax.gal. .1840- —
Evansville, Ind., ex tax.gal. .14 - .15
Milwaukee, inc. 5c. tax.gal. .1980- —
Minneapolis-St. Paul, inc. 5c. tax..gal. .1820- —
Stoddard, tankwagon, Newark, ex tax..gal. .09¼- —
New Orleans, ex tax...gal. .11 - —
New York, ex tax.....gal. .09¼- —
Omaha .....gal. .1360- .1450
Philadelphia, ex tax...gal. .13 - —
St. Louis, inc. 1c. tax..gal. .1340- —
Tulsa, ex tax.....gal. .10¼- .11½
Thinners, at refinery:—
California (f.o.b. San Francisco), 166-252, b.r., tanks, gal. .10½- —
198-290 b.r., tanks.....gal. .10½- —
246-397 b.r., tanks.....gal. .10¼- —
312-408 b.r., tanks.....gal. .09 - —
362-458 b.r., tanks.....gal. .08¾- —
East Coast, 43-47, tanks..gal. .08¾- .09½
47-49, tanks.....gal. .10½- —
Group 3, tanks.....gal. .05¾- —
Tankwagon, tax included:—
Albany .....gal. .13½- —
Baltimore (100 gals.)...gal. .14 - —
25-99 gals.....gal. .16 - —
Boston .....gal. .13½- —
Bound Brook, North Amboy, N. J..gal. .12½- —
Bridgeport, Conn.....gal. .11½- —
Buffalo .....gal. .15½- —
Camden, N. J.....gal. .10 - .11½
Chicago .....gal. .1670- —
Decatur .....gal. .1810- —
Des Moines.....gal. .1790- —
Evansville, Ind.....gal. .1420- .1530
Milwaukee .....gal. .1930- —
Minneapolis-St. Paul...gal. .19½- —
Newark .....gal. .09½- —
New York (200 gals)...gal. .09½- —
Omaha .....gal. .12½- —
Pittsburgh .....gal. .11¾- .12½
Providence .....gal. .12 - —
Rochester .....gal. .12½- —
St. Louis.....gal. .1470- —
Syracuse .....gal. .10½- —
Trenton .....gal. .10½- —
Wilmington, Del.....gal. .12½- —
Phenobarbital, 5-lb. bots.....lb. 3.95 - —
bots. or cns., 100 lbs., spot or contract..lb. 3.60 - —
25-lb. cns.....lb. 3.85 - —
Phenol, USP, dms., c.l., works, frt. equald..lb. .12 - —
l.c.l., same basis.....lb. .12¾- —
under 1,000 lbs.....lb. .13¾- —
tanks, works.....lb. .11 - —
Phenolphthalein, USP, bbls., dms., 2,000-lb. lots..lb. .85 - —
bbls., dms., kegs, 100-250 lbs., lb. .87 - .89
yellow, fib. dms., 2,000-lb. lots, lb. .80 - —
100-lb. fib. dms.....lb. .82 - —
25-lb. dms.....lb. .87 - —
50-lb. kgs.....lb. .84 - —
Phenyl chloride, dms.....lb. .17 - —
Phenylacetaldehyde, bots.....lb. 2.10 - 2.50
Dimethylacetate, cns.....lb. 14.50 -15.00
Phenyl ethyl acetate, cns.....lb. 2.90 - 3.00
Phenylethylphenyl acetate, bots., lb. 8.00 -15.00

## Phenylhydrazine—Red Oxide

Phenylhydrazine, base, CP, bots., lb. 4.00 - —
hydrochloride, CP, bots., works, lb. 4.00 - —
commercial, kgs., works....lb. 1.50 - —
pure, bbls.. works.....lb. 2.25 - —
Phloroglucinol, CP, tins, wks..lb.20.00 -22.00
tech., tins, works.....lb.16.00 -16.50
Phosphate rock, Fla., high-grade, hard, 77% basis, 76% min., bulk, mines..long ton. 4.35 - —
72% min., bulk, mines, long ton. 2.40 - —
70% min., bulk, mines.... long ton. 2.15 - —
land pebble, 72% min., bulk, mines..long ton. 2.40 - —
78% basis, 74% min., bulk, mines..long ton. 2.90 - —
Tenn., 72% bulk, mines..... long ton. 4.50 - —
75% bulk, mines..long ton. 5.50 - —
Phosphorus, red, cs.....lb. .40 - .44
yellow, dms.....lb. .18 - .20
cases.....lb. .22 - .26
Oxychlorides, 67%.....lb. .15 - .18
Pentoxide, dms., c.l., works..lb. .11 - .12
l.c.l., dms., works.....lb. .13 - .14
Sesquisulphide, cs.....lb. .38 - .42
Trichloride, cyls.....lb. .15 - .16
Phthalamide, bbls., works, tons, lb. .35 - —
single bbls., works.....lb. .40 - —
kgs.. works.....lb. .45 - .50
Phthalic annydride, bbls., c.l., works, frt. alld. E. of Miss. R..lb. .14½- —
l.c.l., same basis.....lb. .15½- —
Pichi leaves, bgs.....lb. .10 - .11
Pilocarpine hydrochloride, bots., vis..oz. 3.25 - 3.75
Nitrate, bots., vis.....oz. 3.15 - 3.65
Pimento, bags.....lb. .19 - .20
Pinkroot, bls.....lb. .40 - .41
Pitch, burgundy (see B).
Coaltar, 160° m.p., bbls., c.l., works..ton.19.60 - —
l.c.l.....ton.22.00 - —
Hardwood, 1-time dms., c.l., dlvd. Akron..ton.23.75 -24.00
Linseed, dms.....lb. .05 - .05½
Petroleum (see Asphaltum, Mexican, Texas).
Pine, bbls.....bbl. 6.00 - 6.50
Plaster of Paris (see Gypsum).
Pleurisy root, Southern, bls...lb. .12 - .13
Podophyllin, dms., dlvd. E. of Miss..lb. 4.50 - 4.70
Poke root, bls.....lb. .07 - .07½
Pomegranate bark, bgs.....lb. .52 - .53
Root bark, bgs.....lb. .47 - .48
Poppy flowers, red, bls.....lb. .75 - .80
Seed, Dutch, bgs.....lb. .31 - .32
Hungarian, bgs.....lb. .29 - .30
Roumanian, bgs.....lb. .28 - .29
Turkish, bgs.....lb. .27 - .27½
Potash abietate.....lb. .08 - —
Acetate, tech., bbls., dlvd...lb. .26 - —
kgs., dlvd.....lb. .28 - —
USP, bbls., 250 lbs.....lb. .28 - —
kgs., 100 lbs.....lb. .30 - —
cns., 25 lbs.....lb. .31 - .44
Arsenite, USP, solut., cbys., 100 lbs..lb. .11 - —
demi.. 50 lbs.....lb. .12 - —
Bicarbonate, USP, cryst., bbls., 300 lbs..lb. .17 - —
kgs., 100 lbs.....lb. .19 - —
gran., bbls., 250 lbs.....lb. .17 - —
kgs., 100 lbs.....lb. .19 - —
Bichromate, spot, c.l., works.lb. .08¾- —
5 casks or 10 bbls., or over, works..lb. .09 - —
5 casks or 9 bbls., or less, works..lb. .09¼- —
Bromide, USP, gran., bbls., 500 lbs..lb. .27 - —
fib. dms., 100 lbs.....lb. .28 - —
Carbonate, calc., dms., c.l., works..lb. .06½- —
l.c.l., same basis.....lb. .06¾- —
hydrated, 83-85%, bbls., c.l., works..lb. .06½- —
l.c.l., same basis.....lb. .05¾- —
liquid, dms., c.l., works, frt. alld..lb. .03 - —
l.c.l., dms., same basis.lb. .03125- —
tanks, same basis.....lb. .0275- —
USP, gran., bbls., 325 lbs..lb. .14 - —
powd., bbls., 325 lbs.....lb. .19 - —
kgs., 100 lbs.....lb. .21 - —
Potash, caustic, flake, 88-92% dom., c.l., works..lb. .07 - —
l.c.l.....lb. .07¼- .07½
import, dms.....lb. No prices
liquid, 45% basis, dms....lb. .03½- .05¾
tanks.....lb. .02¾- —
solid, 88-92%, dom., dms., c.l., works..lb. .06¼- —
l.c.l.....lb. .06½- .06¾
import, dms.....lb. No prices
Chlorate, cryst, kgs.....lb. .11 - —
powd., kgs.....lb. .10 - —
Chloride, tech., 98%, cryst., bgs., kgs..lb. .04 Nom.
Chromate, kgs.....lb. .24 - .27
Citrate, USP, gran., bbls., 250 lbs..lb. .33½- —
kgs., 100 lbs.....lb. .34½- —
cns., 50 lbs.....lb. .35½- —
cns., 25 lbs.....lb. .37½- —
Cyanide, dms., works.....lb. .75 - —
Cyanide, gold, 11% gold, bots., works..oz.14.20 -14.45
Glycerophosphate, 75% sol., dms., 1,000-lb. lots..lb. 1.00 - —
100-lb. lots.....lb. 1.10 - —
50-lb. lots, cbys., or cns., lb. 1.15 - —
25-lb. lots, cns.....lb. 1.25 - —
Guaiacolsulphonate, fib. dms., 100-lb. lots..lb. 1.60 - 1.65
cns., 25 lbs.....lb. 1.75 - —
Hydroxide, USP, sticks, cns., 100 lbs. to 1,000 lbs..lb. .32 - .34
Hypophosphite, cns., 100 lbs..lb. .72 - —
25 to 50 lbs.....lb. .75 - —
Iodate, bots., 5 lbs.....lb. 3.55 - —
ozs., 25 lbs.....lb. 3.46 - —
Iodide, bbls., 250 lbs.....lb. 1.20 - —
bots. or cns.....lb. 1.29 - 1.55
dms.....lb. 1.20 - 1.23
Kainit, 20%, $K_2O$, bulk, ex-vessel, Atlantic or Gulf ports. ton. No prices
Manure salt, dom., min., 30%, $K_2O$, bulk, ex-vessels, ports, unit-ton. .60 - —
import, 30%, $K_2O$, bulk, ex-vessel, Atlantic or Gulf ports..ton. No prices

Domestic manure salt prices, basis f.o.b. Carlsbad, N. M., are 11.2c. per unit of $K_2O$ less than the ex-vessel price named above. Prices in bags are $2 per ton higher than bulk prices.

Metabisulphite, kgs.....lb. No price.
Muriate, dom., min., 50% or 62%, $K_2O$, bulk, ex-vessel, ports..unit-ton. .53½- —
import, min. 50% or 60% $K_2O$, bulk, ex-vessel, Atlantic or Gulf port..unit-ton. No prices

Domestic muriate of potash prices, basis f.o.b. Carlsbad, N. M., are 11.2c. per unit of $K_2O$ less than the ex-vessel price named above. Prices, basis f.o.b. Trona, Cal., are 8c. per unit of $K_2O$ less than the ex-vessel price. Prices in bags are $2 per ton higher than the bulk price.

Oxalate, pure, cryst., kgs....lb. .30 - .31
tech., bbls.....lb. .25 - .26
Nitrate, crude, bgs., c.l.f. ports. ton. No prices
Perchlorate, kgs., works.....lb. .09½- .11
Permanganate, tech., dms...lb. .19¼- .19¾
U.S.P., dms.....lb. .20 - .20½
Prussiate, red, bbls.....lb. .45 Nom
Yellow, bbls.....lb. .16 - .18
Recinoleate, tech., bbls.....lb. .13 - —
Silicate alkaline, lumps, bgs..lb. .07 - —
Sulpnate, NF, cryst., 400 lbs., bbls..lb. .18 Nom.
100-lb. kgs.....lb. .20 - —
powd., 350 lbs., bbls....lb. .19 Nom.
100-lb. kgs.....lb. .21 - —
tech., dom., bgs., basis 90%, $K_2SO_4$, ex-vessel, ports, ton.36.25 - —
bulk, same basis.....ton.34.25 - —
imp., min., 90%, bgs., ex-vessel, Atl. or Gulf ports. ton. No prices
Xanthate, dms., c.l.....lb. .13 - —
Potash-magnesia, sulphate, dom., bgs, 40%, $K_2SO_4$, ex-vessel, ports..ton.27.00 - —
bulk, same basis.....ton.25.00 - —
Potash-soda ferricyanide, dms., works..lb. .36 - .39
Potash titanium oxalate, 350-lb. bbls..lb. .40 - —
100-lb. dms.....lb. .40 - —
Prickly ash bark, bls.....lb. .12 - .13
Berries, bgs.....lb. .28 - .30
Prince's pine herb, bls.....lb. .22 - .23
Propane, tanks, Group 3.....gal. .03¾- .04
Psyllium seed (see Fleaseed).
Pulsatilla, bls.....lb. .85 - .90
Pumice stone, Italian, Amer.-grd., 4F, 3F, 2F, 1½F, and coarser, bbls., 3 or over, works..lb. No prices
less than 3, works...lb. No prices
F and 1, bbls.. 3 or over, works..lb. No prices
less than 3, works....lb. No prices
O, O-½, O-¾, and ½, bbls., 3 or over, works..lb. No prices
less than 3, works....lb. No prices
Ital.-grd., bgs., c.l., ship., ex dock, N.Y..ton. No prices
l.c.l., 5-20 tons, ex whse.. ton. No prices
1,000-10,000 lbs., ex whse. ton. No prices
2 bgs. to 1,000 lbs., ex whse. ton. No prices
single bgs., ex whse..ton. No prices
Pumpkin seed, bgs.....lb. .10 - .11
Purple lake (see Red).
Putty, com'l, dms.....100 lbs. 3.15 - —
linseed oil, raw, dms....100 lbs. 5.00 - —
refined, dms.....100 lbs. 5.50 - —
standard, dms.....100 lbs. 4.20 - —
Pyrethrum concentrate, liq. (20 to 1), basis 2 grams pyrethrins per 100 cc., dms., dlvd.....gal. 4.75 - 4.95
(30 to 1), 3 grams spyrethrins per 100 cc., dms., dlvd..gal. 7.20 - —
Pyrethrum flowers, coarse, grnd. (g.f.p.), 9% pyrethrins, frt. alld., bbls....lb. .23 - .25
fine powd., 9% pyrethrins, frt. alld., bbls..lb. .25 - .26
Pyridin, denaturing, dms.....gal. 1.71 - —
refd., 2°, dms.....lb. .48 - —
Pyrites, Spanish, bulk, c.l.f. Atl. ports..unit-ton. .12-.13 Nom.
Pyrocatechin, CP, cryst., works, fib. dms., tins..lb. 2.15 - 2.40
resublimed, fib. dms., tins..lb. 4.60 - —
Pyrophyllite, standard, 200 mesh, c.l., mines..ton. 9.00 - —
325 mesh ,same basis.....ton.12.00 - —
No. 3, 200 mesh, c.l., mines.ton. 7.50 - —
325 mesh, same basis.....ton.12.00 - —
Pyroxylin scrap, amber, cs., works..lb. .12 - —
black, cs., works.....lb. .10 - —
china white, ivory, cs., works, lb. .13 - —
dense, white, cs., works....lb. .10 - —
gray, cs., works.....lb. .08 - —
mixed, mottles, opaque, cs., works..lb. .04 - —
translucent pastels, cs., works..lb. .10 - —
transparent, cs., works..lb. .29 - —
colors, cs., works.....lb. .12 - —
shavings, amber, cs., works..lb. .16 - —
colors, mixed, cs., works..lb. .10 - —
white, cs., works.....lb. .15 - —

## Q

Quassia chips, bls.....lb. .05 - .06
Quebracho extract, liquid, 35% tan, bbls., works..lb. .04 - —
tanks, works.....lb. .03½- —
solid, 63%, bgs., c.l., ex dock, plus duty..lb. .04½- —
clarified, 64%, bgs., c.l., same basis..lb. .04¾- —
Queen of the meadow leaves, bgs..lb. .07½- .08
Root, bgs.....lb. .10 - .11
Quercitron, extract, liquid, 50°, bbls..lb. .08½- .09½
solid, dms.....lb. .11 - .16½
Quicksilver, dom., flasks, (76 lbs. net), dlvd., N.Y..flask.168.00 -170.00
European, flasks (76 lbs. net), c.l.f., N. Y., incl. war risk insurance..flask.207.00 - —
ex store.....flask.209.00 - —
Quince seed, bgs.....lb. 1.10 - 1.15
Quinidine, N.F.V., cryst., cns..oz. 1.06 - —
powd., precip., cns.....oz. 1.01 - —
Sulphate, cns.....oz. .71 - —
Subject to surcharge of 7c. per oz.; see note under Quinine.
Quinine, 100 ozs., cns.....oz. .84 - —
Acetate, cans.....oz. 1.05 - —
Arsenate, cns.....oz. 1.05 - —
Arsenite, cns.....oz. 1.07 - —
Bisulphate, cns.....oz. .69 - —
Citrate, cns.....oz. .78 - —
Dihydrobromide, bots.....oz. .82 - —
Dihydrochloride, bots.....oz. .82 - —
Ethylcarbonate, cns.....oz. .85 - —
Ferrocyanide, cns.....oz. 1.07 - —
Formate, cns.....oz. 1.00 - —
Hydrochlorosulphate, cns....oz. .81 - —
Glycerophosphate, cns.....oz. 1.20 - —
Hydrochloride, cns.....oz. .76 - —
Hydroiodide, cns.....oz. 1.05 - —
Hypophosphite, cns.....oz. 1.07 - —
Phosphate, cns.....oz. .90 - —
Salicylate, cns.....oz. .79 - —
Sulphate, USP, XI, cns.....oz. .67 - —
Sulphocarbonate, cns.....oz. 1.05 - —
Tannate, cns.....oz. .63 - —
Tartrate, cns.....oz. 1.03 - —
Valerate, cns.....oz. .99 - —

Quinine buyers must pay a surcharge of 7c. per oz. to cover present war risk insurance, ocean freight rates, and additional expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Quinine-urea hydrochloride, cns.oz. .81 - —
Subject to surcharge of 7c. per oz.; see note under Quinine.

## R

R, salt, dry, bbls.....lb. .55 - —
paste, dms.....lb. .52 - —
Rapeseed, Argentine, bgs.....lb. .06 - .06½
Dutch, bgs.....lb. No stocks
Indian, recleaned, bgs.....lb. .06¼- .06¾
Japanese, bgs.....lb. No stocks
Raspberries, dried, bls.....lb. .60 - .63
Red, alizarin lake, bbls., dlvd. N. of Tenn., and N. C. E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 1.10 - 1.90

Red, Alizarin lake prices are ½c. higher dlvd. Ala., Fla., Ga., Ia. (Shreveport, 1¼c.). Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.; El Paso, 2c.). Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Cadmium, lithopone, deep shade, bbls., ton lots, works, frt. alld..lb. .90 - —
smaller lots, same basis, lb. .95 - —
kgs., ton lots, same basis, lb. .95 - —
smaller lots, same basis, lb. 1.00 - —
light shade, bbls., ton lots, same basis..lb. .75 - —
smaller lots, same basis, lb. .80 - —
kgs., ton lots, same basis, lb. .80 - —
smaller lots, same basis, lb. .85 - —
light-medium shade, bbls., ton lots, same basis..lb. .80 - —
smaller lots, same basis, lb. .85 - —
kgs., ton lots, same basis, lb. .85 - —
smaller lots, same basis, lb. .90 - —
maroon shades, bbls., ton lots, same basis..lb. 1.00 - —
smaller lots, same basis, lb. 1.05 - —
kgs., ton lots, same basis, lb. 1.05 - —
smaller lots, same basis, lb. 1.10 - —
medium shade, bbls., ton lots, same basis..lb. .85 - —
smaller lots, same basis, lb. .90 - —
kgs., ton lots, same basis, lb. .90 - —
smaller lots, same basis, lb. .95 - —
Selenide, bbls., dark, works, lb. 2.70 - —
light, works.....lb. 2.40 - —
orange, bbls., 100-lb. lots, works..lb. 1.50 - —
Carmine, 40, dms., 100 lbs...lb. 4.50 - —
50 lbs.....lb. 4.60 - —
cns., 5 lbs.....lb. 4.75 - —
1 lb.....lb. 4.85 - —
Crocus martis (see Red, purple oxide).
Eosin toner, bbls.....lb. 1.25 - —
Indian, pure, bbls., f.o.b. Bethlehem, Easton, E. St. Louis, N. Y..lb. .08¾- —
80%-85%, bbls., same basis.lb. .07½- —
Iron oxide (see Red oxide).
Lake C toner, bbls., same basis, alizarin, lake, contracts..lb. .90 - —
open order.....lb. .90 - —
Lithol toner, bbls., same basis, alizarin, lake, contracts.lb. .55 - —
open order.....lb. .60 - —
Rose lake, bbls.....lb. .20 - .22
Pink, bbls.....lb. .15 - .20
Lithol-rubine toner, bbls., same basis, alizarin lake, contracts..lb. 1.35 - —
Maroon lake, 25% kgs., same basis, alizarin lake, contracts..lb. .40 - —
Oxide (see Red, purple oxide).
Mercury oxide, tech., dom., bbls. lb. 2.81 - —
Metallic, bbls., Pa., works...lb. .02 - —
Orange, Persian (see O).
Oxide, pure, bbls., c.l., works, lb. .06½- —
l.c.l., works.....lb. .09¼- —
reduced, 85% copperas oxide, bbls., l.c.l., f.o.b. Bethlehem, Easton, E. St. Louis, Copley, Ohio..lb. .08¼- —
80% copperas oxide, bbls., same basis..lb. .07¾- —
Para, toner, concent., kegs, same basis, alizarin lake, contracts..lb. .70 - —
open order.....lb. .75 - —
Persian, Gulf, oxide, bbls., l.c.l., f.o.b. Bethlehem, Easton, N.Y..lb. .05 - —
ex whse., Chicago, St. Louis..lb. .05¾- —
San Fran., Los Ang., Portland, Seattle..lb. .05½- —
Phloxin toner (see Red, Eosin toner).
Phosphotungstic rhodamine Y, kgs..lb. 3.90 - —
Purple lake, kgs.....lb. .60 - 1.00
Oxide, bbls., f.o.b. Bethlehem, Easton, E. St. Louis..lb. .03 - —
Toner, kgs.....lb. 1.50 - 2.00

DRYMET ANHYDROUS SODIUM METASILICATE
REG. U. S. PAT. OFF.

FOR COMPOUNDING CLEANERS FOR

METAL · TEXTILE · BUILDING MAINTENANCE
LAUNDRY · DISHWASHING · FOOD AND BEVERAGE
HOUSEHOLD

TODAY'S production methods require high-speed, economical, efficient detergents. DRYMET is the leader for cleaning compounds.

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DRYMET is easy to handle. It is packed in 22 gauge, full open head steel drums—ideal for re-use in your plant. We are in position to give you service direct or from jobber's stocks located in principal cities.

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Please send complete information on DRYMET.
We are also interested in:
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THE COWLES DETERGENT COMPANY
Heavy Chemical Department Cleveland, Ohio

DRYMET—Anhydrous Sodium Metasilicate Regular and Fines
DRYORTH—Technically Anhydrous Sodium Orthosilicate
CRYSTAMET—Pentahydrate Sodium Metasilicate

Red, scarlet ink toner, kgs., same basis, alizarin lake..lb. .55 - —
Lake, kgs., same basis alizarin lake..lb. .25 - .30
Spanish, oxide, bbls., f.o.b. N.Y..lb. .04½- —
Toluidine toner, kgs., same basis, alizarin lake..lb. 1.05 - —
Tuscan, bbls., f.o.b. N. Y., E. St. Louis..lb. .11 - .40
Venetian, bbls., works.....lb. .0220- —
10%, bbls., works.....lb. .0245- —
15%, bbls., works.....lb. .0265- —
20%, bbls., works.....lb. .02¾- —
25%, bbls., works.....lb. .03 - —
30%, bbls., works.....lb. .03¼- —
35%, bbls., works.....lb. .0360- —
40%, bbls., works.....lb. .04 - —
Vermilion, Amer., bbls., same basis alizarin lake..lb. .15 Nom.
quicksilver, bbls.....lb. 3.12 - 3.17
Red dyes are listed under Dyes.
Red precipitate, N. F., powd., fib., dms., 50 lbs. or more..lb. 3.06 - —
Red saunders wood, ground, bbls. lb. .85 - —
Resorcinol, tech., 200 lb. dms., frt., alld., E. of Miss..lb. .68 - —
smaller quantities, works..lb. .74 - —
U.S.P., cryst, 100 lbs., dms., frt., alld., E. of Miss..lb. 1.80 - —
Rhatany root, bgs.....lb. .12 - .14
Rhubarb, cs.....lb. .45 - .46
powd., bbls., kgs.....lb. .50 - .51
Rochelle salt, cryst., bbls., 5,000 lbs., 1 ship't..lb. .27½- —
smaller lots.....lb. .27¾- —
powd., bbls., 5,000 lbs., 1 ship't..lb. .26¼- —
smaller lots.....lb. .26¾- —
Rose flowers, pale, bls.....lb. .45 - .50
red, bls.....lb. 2.50 - 3.00
Rosemary, flowers, bls.....lb. .45 - .50
leaves, bls.....lb. .09 - .10
Rosin, gum, B, bbls., ex dock.. 100 lbs. 2.35 - —
D, bbls.....100 lbs. 2.30 - —
E, bbls.....100 lbs. 2.33 - —
F, bbls.....100 lbs. 2.33 - —
G, bbls.....100 lbs. 2.33 - —
H, bbls.....100 lbs. 2.33 - —
I, bbls.....100 lbs. 2.38 - —
K, bbls.....100 lbs. 2.56 - —
M, bbls.....100 lbs. 2.71 - —
N, bbls.....100 lbs. 2.75 - —
W. G., bbls.....100 lbs. 3.07 - —
W. W., bbls.....100 lbs. 3.30 - —
X, bbls.....100 lbs. 3.30 - —
wood, F.F., spot, bbls..100 lbs. 2.50 Nom.
Rottenstone, dom., bgs., c.l., f.o.b. mines..ton.25.50 - —
l.c.l., f.o.b. mines....ton.37.50 - —
import, lum, bbls.....lb. No prices
powd., bbls.....lb. No prices
Rue, bls.....lb. .30 - .35

## S

Sabadilla seed, powd., bbls....lb. .22 - .28
Saccharin, dms., 100 lbs.....lb. 1.45 - —
cns., 25 lbs.....lb. 1.48 - 1.50
Safflower, bls.....lb. .35 - .40
Saffron, Mexican, bls.....lb. .35 - .40
Spanish, tins.....lb.29.00 -30.00
Safrol, cns.....lb. .90 - —
dms.....lb. .85 - —
Sage, Dalmatian, stemless, bls.lb. No stocks
ground, bbls.....lb. 1.20 - 1.30
garden, bls.....lb. No stocks
Greek, bls.....lb. .52 - .54
Sago flour, bgs.....lb. .03½- .04
Salicin, bots., 5 lbs.....lb. 7.04 - —
cns., 25 lbs.....lb. 7.00 - —
Salol, gran., bbls., 200 lbs....lb. .90 - —
bxs., 25 lbs.....lb. .93 - —
kgs., 100 lbs.....lb. .90 - —
powd., fib, dms., 25 lbs.....lb. 1.03 - —
kgs., 100 lbs.....lb. 1.00 - —
Salt, rock, bgs., dlvd., N.Y....ton.13.70 - —
l.c.l., bgs., dlvd., N.Y...ton.15.50 -16.10
vacuum, common, fine, bgs., c.l., dlvd., N.Y..ton.15.70 - —
l.c.l., dlvd., N.Y.....ton.16.60 -19 70
Saltcake, grd., dom., bbls., works, ton.24.00 Nom.
bulk, works.....ton.17.00 Nom.
import, bulk, c.l.f.....ton.20.00 Nom.
Chrome (see Chrome cake).
Saltpeter, dbl., refined, cryst., 10-20 tons, bbls..100 lbs. 8.60 - 9.60
1-9 tons.....100 lbs. 8.75 - 9.75
less than ton lots..100 lbs. 9.00 -10.00
gran., bbls., 10-20 tons, 100 lbs. 7.60 - —
1-9 tons.....100 lbs. 7.75 - —
less than ton lots..100 lbs. 8.00 - —
powd., bbls., 10-20 tons..100 lbs. 8.60 - —
1-9 tons.....100 lbs. 8.75 - —
less than ton lots...100 lbs. 9.00 - —
Santonin, cryst., cns.....kilo.145.00 -150.00
Saponin, crude, cns.....lb. 2.25 - 2.50
Purified, cns., 25 lbs.....lb. 3.00 - 3.25
Sarsaparilla root, Honduras, bls.lb. .30 - .31
Mexican, bls.....lb. .16 - .18
Sassafras, bark, ord., bls.....lb. .13 - .14
select, bls.....lb. .20 - .21
Savory, bales.....lb. .70 - .72
Saw palmetto berries, bgs.....lb. .08 - .09
Scammony root, bgs.....lb. .07 - .08
resin, lump, cns.....lb. .85 - —
powd., bxs.....lb. .90 - —
Schaeffer's salt, bgs.....lb. .46 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .21¼- —
smaller lots.....lb. .21¾- .24¾
kegs, 5,000 lbs., 1 shipm't..lb. .21¾- —
smaller lots.....lb. .22¼- —
Selenium, pwd. A, 10-lb. tins..lb. 2.00 - —
100-lbs. cases.....lb. 1.75 - —
Senega root, spot, bls.....lb. .80 - .85
Senna leaves, Alexandria, half leaf, bls..lb. .18 - .20
siftings, bgs.....lb. .17 - .19
Tinnevelly, No. 1, bls.....lb. .12 - .13
2 bls.....lb. .10 - .11
3 bls.....lb. .08½- .09
powd., bbls., bxs.....lb. .12 - .13
Pods, bls.....lb. .09 - .10
Serpentaria root, bls.....lb. .60 - .65
Shellac, bleached, bonedry, bbls., f.o.b., N.Y..lb. .25 - .26
dlvd., Boston.....lb. .23½- .26½
Chicago.....lb. .25¾- .26¾
Pacific Coast.....lb. .28 - .29
rfd., bbls., f.o.b. N.Y....lb. .31 - .32
dlvd., Boston.....lb. .31½- .32½
Chicago.....lb. .31¾- .32¾
Pacific Coast.....lb. .34 - .35
Garnet, bgs.....lb. .20 - .21
D.C., V.S.O., or Diamond I, cs..lb. .28 - .29
Superfine, bgs., f.o.b. Bost., N. Y..lb. .16½- .17½
dlvd., Chicago.....lb. .17 - .18
Pacific Coast.....lb. .19½- .20½
T.N., bgs., f.o.b. Bost., N.Y.lb. .16 - .17
dlvd., Chicago.....lb. .16½- .17
Pacific Coast.....lb. .19 - .20
Varnish, Metro. area, orange, 5-lb. cut, bbls..gal. 1.10 - 1.15
4½-lb. cut, bbls.....gal. 1.05 - 1.10
4-lb. cut, bbls.....gal. 1.00 - 1.05
white, 5-lb. cut, bbls.....gal. 1.20 - 1.25
4½-lb. cut, bbls.....gal. 1.15 - 1.20
4-lb. cut, bbls.....gal. 1.10 - 1.15
Prices, dlvd., Boston or Chicago, 10c per gal. higher.

Silica, amorph, dry-grd., 95-97%, 325 mesh, bgs., c.l., works..ton.17.00 - —
l.c.l., 2½ tons, works, ton.19.00 - —
smaller lots, works, ton.20.00 - —
wet-grd., 95-97%, 325 mesh, bgs., c.l., works..ton.19.00 - —
l.c.l., 2½ tons, works, ton.21.00 - —
smaller lots, works.ton.25.00 - —
95-97%, 400 mesh, bgs., c.l., works..ton.30.00 - —
l.c.l., 2½ tons, works, ton.35.00 - —
smaller lots, works.ton.38.00 - —
96-98%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., 2½ tons, wks.ton.21.50 - —
smaller lots, works.ton.23.00 - —
amorph., wet-grd., 99%, 325 mesh, bgs., c.l., works.ton.22.00 - —
l.c.l., 2½ tons, works, ton.25.50 - —
smaller lots.....ton.27.00 - —
hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton.13.50 - —
l.c.l., works.....ton.18.50 - —
140 mesh, bgs., c.l., works, ton.11.00 - —
l.c.l., works.....ton.16.00 - —
Silver, bullion.....oz. .34¾- —
Govt. purchase, dom., metal. oz. .7111- —
Govt. purchase, foreign metal. oz. .35 - —
Cyanide, cns., 2,500 ozs.....oz. No prices
1,000 ozs.....oz. No prices
500 ozs.....oz. No prices
80 to 100 ozs.....oz. No prices
Nitrate, vis.....oz. .26⅞- —
Nucleinate, bots., cns., 480-oz. lots..oz. .30 - .31
Proteinate, bots., cns., 480-oz. lots..oz. .29 - .30
Simarubra barks, bls.....lb. .30 - .35
Skullcap, Eastern, bls.....lb. .23 - .24
Western, bls.....lb. .14 - .15
Skunk cabbage root, bls.....lb. .11 - .12
Slate flour, bgs., c.l., works..ton. 9.00 - —
l.c.l., works.....ton.10.00 -15.00
Sloe berries, bgs.....lb. .20 - .22
Smalt, black, extra velvet, cnts., lb. .05 - .08
Blue, cnts.....lb. .07 - .08½
Snakeroot, Cañada, bls.....lb. .24 - .26
Soapbark, bls.....lb. .13 - .14
crushed, bls., bbls.....lb. .17 - .18
cut, German, bls., bbls.....lb. No stocks
dom., bbls.....lb. .22 - .23
powd., bbls.....lb. .20 - .21
Soda, acetate, anhyd., dms., dlvd. lb. .08¼- .10
flake, gran., powd., 60%, dms., c.l., dlvd..lb. .04 - —
l.c.l., dlvd..lb. .04½- .05
powd., 90%, dms., c.l., dlvd., lb. .06 - —
l.c.l., dlvd.....lb. .06¾- —
Alginate, dms., bbls., works..lb. .39 - .70
Antimoniate, bbls., dlvd.....lb. .14½- .15
Arsenate, dms., dealers, c.l., works..lb. .07 - .08
l.c.l., dms., works.....lb. .07¾- .08¾
Arsenite, dry, gray, dms., c.l., dealers, works..lb. .06½- .07½
l.c.l., dms., works.....lb. .07¼- .09¼
white, dms., c.l., dealers, works..lb. .08 - .09
l.c.l., dms., works.....lb. .08¾- .10¾
Soda arsenite, dry, gray, prices are ¾c. per pound higher in Chicago; 1c. per pound higher in Houston, Tex., and Colorado. White prices are 1c. per pound higher in Tex. and Colo.

Ash, dense, 58%, bgs., c.l., works..100 lbs. 1.10 - —
l.c.l., Zone 1.....100 lbs. 2.13 - —
2.....100 lbs. 2.28 - —
3.....100 lbs. 2.53 - —
4.....100 lbs. 2.93 - —
bbls., c.l., works.....100 lbs. 1.35 - —
l.c.l., Zone 1.....100 lbs. 2.35 - —
2.....100 lbs. 2.50 - —
3.....100 lbs. 2.75 - —
4.....100 lbs. 3.15 - —
bulk, c.l., works.....100 lbs. .95 - —
extra light, 58%, bgs., c.l., 100 lbs. 1.05 - 1.08
l.c.l., Zone 1.....100 lbs. 2.08 - —
2.....100 lbs. 2.23 - —
3.....100 lbs. 2.48 - —
4.....100 lbs. 2.88 - —
bbls., c.l., works.....100 lbs. 1.45 - —
l.c.l., Zone 1.....100 lbs. — - —
2.....100 lbs. 2.60 - —
3.....100 lbs. 2.85 - —
4.....100 lbs. 3.25 - —
bulk, c.l.....100 lbs. .90 - —
light, 58%, bgs., c.l., works, lbs. 1.05 - 1.08
l.c.l., Zone 1.....100 lbs. 2.08 - —
2.....100 lbs. 2.23 - —
3.....100 lbs. 2.48 - —
4.....100 lbs. 2.88 - —
58%, bbls., c.l., works, 100 lbs. 1.35 - —
bbls., l.c.l., Zone 1..100 lbs. 2.35 - —
2.....100 lbs. 2.50 - —
3.....100 lbs. 2.75 - —
4.....100 lbs. 3.15 - —
bulk, c.l.....100 lbs. .90 - —
Soda ash l.c.l prices are per 100 lbs. f.o.b. recognized warehouse points and include delivery in any quantity to customer's sidewalk within recognized local trucking distance of seller's warehouse. The sales zones are:—Zone 1: All Northern U.S. E. of Miss. river and North of the Southern boundaries of Ky. and Va., including also St. Louis, Mo., and Davenport, Ia., parallel; La., Miss., Ala., South of 31° Texas, E. of 100° Meridian and S. of 31° parallel and Fla., in Me., N. H. and Vt.; special local zone prices apply for ship't to various counties. Zne 2: Ark. East of 93° Meridian, Neb., E. of 98° Meridian; Tex., N. of 31° parallel and E. of 100° Meridian (except Wichita Falls), Ala., La., and Miss. N. of 31° parallel; Iowa (except Davenport), Ga., Minn., Mo. (except St. Louis), N. and S. C. and Tenn. Zone 3: Kansas, Neb., W. of 98° Meridian, Tex., W. of 100° Meridian (including Wichita Falls, but excluding El Paso), N. and S. D., Okla., Ark., W. of 93° Meridian. Zone 4: El Paso, Tex.; Ariz., Colo., Idaho, Mont., Nev., N. M., Utah and Wyo.

Benzoate, tech., bbls., 4,000 lbs. or more..lb. .39 - —
1,000 to 3,900 lbs.....lb. .40 - —
900 lbs. or less.....lb. .43 - —
USP, bbls., fib., 4,000 lbs. or more..lb. .46 - —
1,000 to 3,900 lbs.....lb. .47 - —
900 lbs. or less.....lb. .50 - —
Bicarbonate, tech., bbls., c.l., works..100 lbs. 1.70 - —
l.c.l. .....100 lbs. 2.05 - —
bgs., c.l.....100 lbs. 1.55 - 1.60
l.c.l. .....100 lbs. 1.90 - 1.95

Soda, bicarbonate, USP, gran., bbls., c.l., works..100 lbs. 2.25 - —
powd., bbls., c.l., works... 100 lbs. 1.85 - —
l.c.l., dlvd., N.Y..100 lbs. 2.51 - —
kgs., c.l.....100 lbs. 2.10 - —
l.c.l., dlvd., N.Y..100 lbs. 2.76 - —
Bichromate, spot, c.l., works.lb. .06⅞- —
l.c.l., 6 cks. or 10 bbls. or over, works..lb. .07 - —
5 cks., or 9 bbls. or less, works..lb. .07¼- —
Bifluoride, bbls.....lb. .11½- .12
Bisulphite, powd., bbls., c.l., works..100 lbs. 3.00 - 3.10
l.c.l., works.....100 lbs. 3.50 - 3.60
solution, 32 deg., bbls., c.l., works..100 lbs. 1.30 - —
l.c.l., bbls., works..100 lbs. 1.55 - —
33 deg., bbls., c.l., works.. 100 lbs. 1.35 - —
l.c.l., bbls., works..100 lbs. 1.60 - —
35 deg., bbls., c.l., works, 100 lbs. 1.40 - —
l.c.l., bbls., works..100 lbs. 1.65 - —
44 deg., bbls., works.100 lbs. 1.65 - —
l.c.l., bbls., works..100 lbs. 1.80 - —
Bromide, USP, gran., bbls., 500 lbs..lb. .27 - —
fiber dms., 100 lbs.....lb. .28 - —
Cacodylate, 1-kilo bots.....lb.12.50 Nom.
Carbonate (see Soda ash, soda monohydrated, soda sal).
Caustic, flake, 76% powd., ammon. process, bbls., c.l., works..100 lbs. 2.95 - —
dms., c.l., works..100 lbs. 2.70 - —
l.c.l., Zone 1....100 lbs. 3.55 - 4.90
2.....100 lbs. 3.70 - 5.05
3.....100 lbs. 3.95 - 5.30
4.....100 lbs. 4.35 - 5.70
electro process, dms., c.l., works..100 lbs. 2.70 - —
l.c.l., same zone prices as ammonia process.
liquid, 47-49%, buyers' tanks, works..100 lbs. 1.92½- —
sellers' tanks, works, 100 lbs. 1.95 - —
70%, buyers' tanks, works, 100 lbs. 1.97½- —
sellers' tanks, works, 100 lbs. 2.00 - —
solid, 76% ammon., process, dms., c.l., works..100 lbs. 2.30 - —
l.c.l., Zone 1....100 lbs. 3.15 - —
2.....100 lbs. 3.30 - —
3.....100 lbs. 3.55 - —
electro process, dms., c.l., works..100 lbs. 2.30 - —
l.c.l., same zone prices as ammon. process.
Caustic soda, l.c.l., prices are on the same basis as those for soda ash. The sales zones are also the same.
Chlorate, dom., cryst., bgs., c.l., works..lb. .06¼- —
l.c.l., works.....lb. .06½- —
powd., bgs., c.l., works..lb. .06½- —
l.c.l., works.....lb. .07 - .08½
Chromate, spot, c.l., works..lb. .08¼- —
l.c.l., 6 cks., 10 bbls. or over, works..lb. .08⅜- —
smaller quantities.....lb. .08⅝- —
Citrate, USP VIII, 225-lb. bbls., lb. .18½- —
cns., 50-lb. lots.....lb. .20½- —
25-lb. lots.....lb. .22½- .23½
kgs., 100-lb. lots.....lb. .19½- —
USP XI, gran., bbls., 250-lb. lots..lb. .24 - —
boxes, 50-lb. lots.....lb. .26 - —
cns., 25-lb. lots.....lb. .28 - .29
kgs., 100-lb. lots.....lb. .25 - —
powd., bbls., 250-lb. lots..lb. .24½- —
boxes, 50-lb. lots.....lb. .26½- —
cns., 25-lb. lots.....lb. .29½- —
kgs., 100-lb. lots.....lb. .25½- —
Cyanide, 96-98%, dom., dms..lb. .14 - .15
imports, 90%, cs.....lb. No price
Diacetate, 33-35% acidity, bbls., dlvd..lb. .09 - —
Fluoride, white, 90%, bbls., c.l., frt. alld..lb. .07 - —
l.c.l., 10 or over, same basis..lb. .07½- —
1-9, same basis.....lb. .08 - —
95%, bbls., c.l., same basis, lb. .07¼- —
l.c.l., 10 or over, same basis..lb. .07¾- —
1-9, same basis.....lb. .08¼- —
Soda fluoride prices at Los Angeles are f.a.s. works.
Glycerophosphate, NF, cryst., bbls., 1,000-lb. lots..lb. 1.10 - —
smaller lots.....lb. 1.25 - —
cns., 25 lbs.....lb. 1.50 - —
powd., bbls., 1,000-lb. lots..lb. 1.15 - —
smaller lots.....lb. 1.30 - —
cns., 25 lbs.....lb. 1.55 - —
Hydrosulphite, dms.....lb. .16 - .17
Hydroxide, USP, sticks, cns., 100 to 1,000-lb. lots..lb. .20 - .22
Hypophosphite, N. F., cns., 100-lb. lots..lb. .67 - —
Hyposulphite, cryst., large, bgs., c.l., wks., frt. equal'd, 100 lbs. 2.25 - —
bbls., same basis...100 lbs. 2.45 - —
l.c.l., bgs., works, frt. equal'd..100 lbs. 2.50 - —
bbls., same basis...100 lbs. 2.70 - —
pea, bgs., c.l. works..100 lbs. 2.60 - —
bbls., works.....100 lbs. 2.80 - —
dms., works.....100 lbs. 3.10 - —
5,000 lbs. and over, bgs., works..100 lbs. 2.75 - 3.00
bbls., works.....100 lbs. 2.95 - 3.20
dms., works.....100 lbs. 3.25 - 3.60
2,500 to 5,000 lbs., bgs., works..100 lbs. 2.85 - 3.10
bbls., works.....100 lbs. 3.05 - 3.30
dms., works.....100 lbs. 3.35 - 3.60
500 to 2,500 lbs., works, 100 lbs. 3.10 - 3.25
bbls., works.....100 lbs. 3.30 - 3.55
dms., works.....100 lbs. 3.60 - 3.85
less than 500 lbs., bgs., works..100 lbs. 3.70 - 3.95
bbls., works.....100 lbs. 3.90 - 4.15
dms., works.....100 lbs. 4.20 - 4.45
Iodate, jars.....lb. 5.49 - —
Iodide, jars.....lb. 2.42 - —
bots. .....lb. 2.53 - 2.57
Mandelate, dms., 100-lb. dms.lb. 3.25 - —
Metanilate, bgs.....lb. .41 Nom.
Metasilicate, anhydr., dms., c.l., works, frt. equal'd..100 lbs. 3.75 - —
15 dms. and over, dlvd. N.Y..100 lbs. 4.65 - —
3-14 dms., same basis.. 100 lbs. 4.80 - —
1-2 dms., same basis.. 100 lbs. 5.05 - —
gran., bbls., c.l., works...lb. 2.35 - —
10 bbls. and over, dlvd., N.Y..lb. 3.10 - —
1-9 bbls., dlvd. N.Y.....lb. 3.35 - —
Molybdate, kgs., works.....lb. .60 - —
less kgs.....lb. .65 - —
Monohydrated, bbls.....100 lbs. 2.60 - —
works .....100 lbs. 2.30 - —
Naphthionate, bbls.....lb. .50 - —

## Red, Scarlet—Spikenard Root

Soda, nitrate, crude, c.l., 100-lb. Orange, D. C., VSO., Dia- bgs., dlvd., f.o.b. cars producing point or ports, rail or boat shipment.ton.29.40 - —
200-lb. bgs., same basis.. ton.28.70 - —
bulk, same basis.....ton.27.00 - —
Rfd., gran., bbls., 10 tons... 100 lbs. 2.50 - —
1-9 tons.....100 lbs. 2.65 - —
smaller lots.....100 lbs. 2.90 - —
powd., bbls., 10 tons.100 lbs. 5.50 - —
1-9 tons.....100 lbs. 5.65 - —
Nitrite, 96-98%, dom., bbls., c.l., works, frt. equalized, lb. .06¾- —
c.l., West Coast, f.o.b. ports..lb. .08 - —
l.c.l. .....lb. .08¼- .11½
Soda nitrite l.c.l. prices range represents delivery at various points.
Orthosilicate, flake, dms., c.l., works..100 lbs. 3.00 - —
Oxalate, neut., bbls.....lb. .09 - —
kgs. .....lb. .10 - .11
Perborate, NF, bbls., c.l., works, lb. .14¾- —
l.c.l., works.....lb. .15¼- —
Pentachlorphenate briquets, single bgs., works..lb. .26 - —
70 lbs., bgs., works.....lb. .19½- —
490 lbs., bgs., works.....lb. .17½- —
powd., 100 lbs., bgs., works, lb. .19 - —
500 lbs., bgs., works.....lb. .17 - —
Phosphate, dibasic, anhyd., bgs., c.l., works..100 lbs. 5.15 - —
l.c.l., works.....100 lbs. 6.10 - —
bbls., c.l., works....100 lbs. 5.35 - —
l.c.l., works.....100 lbs. 6.30 - —
cryst., tech., bgs., c.l., works, 100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.50 - —
bbls., c.l., works....100 lbs. 2.30 - —
l.c.l., works.....100 lbs. 2.70 - —
monobasic, anhyd., bgs., c.l., works..100 lbs. 7.25 - —
l.c.l., works.....100 lbs. 8.00 - —
bbls., c.l., works....100 lbs. 7.45 - —
l.c.l., works.....100 lbs. 8.20 - —
tribasic, bgs., c.l., works..lb. 2.25 - —
l.c.l., works.....100 lbs. 2.65 - —
bbls., c.l., works....100 lbs. 2.45 - —
l.c.l., works.....100 lbs. 2.85 - —
bgs., c.l., works....100 lbs. 2.95 - —
l.c.l., works.....100 lbs. 3.35 - —
USP (dibasic), bbls., works, lb. .09 - .11
dried, bbls., dms., works..lb. .11½- .14
Picramate, kgs.....lb. .65 - —
Prussiate, yellow, bbls., 10,000 lbs. or more..lb. .10½- —
contracts .....lb. .09½- —
smaller lots.....lb. .10¾- —
contracts .....lb. .09¾- —
Pyrophosphate, anhyd., bgs., c.l., works, frt. equal'd.100 lbs. 5.10 - —
l.c.l., same basis..100 lbs. 5.85 - 5.60
bbls., c.l., works, frt. equalized..100 lbs. 5.30 - —
l.c.l., same basis...100 lbs. 5.55 - 5.80
Ricinoleate, tech., bbls.....lb. .12 - —
Sal., bgs., dlvd. N. Y....100 lbs. 1.20 - —
works .....100 lbs. 1.00 - —
bbls., dlvd. N. Y.....100 lbs. 1.30 - —
works .....100 lbs. 1.10 - —
Salicylate, bxs.....lb. .52 - —
Sesquicarbonate, bgs., c.l., works, 100 lbs. 1.50 - —
bbls., c.l., works...100 lbs. 1.70 - —
bbls., l.c.l., Zone 1...100 lbs. 2.70 - —
2.....100 lbs. 2.85 - —
3.....100 lbs. 3.10 - —
4.....100 lbs. 3.50 - —
Soda sesquicarbonate l.c.l. prices are on same basis as those for soda ash and caustic soda. The sales are also the same.
Sesquisilicate, dms., c.l., works, 100 lbs. 2.90 - —
10 dms. or over, dlvd. N. Y. C., lb. 4.00 - —
1-9 dms.....lb. 4.25 - —
Silicate, 40° turbid, dms., c.l., works..100 lbs. .80 - —
l.c.l., 5 or more, works, 100 lbs. 1.05 - —
1 to 4, works....100 lbs. 1.20 - —
52°, dms., c.l., works..100 lbs. 1.40 - —
l.c.l., 5 or more, works, 100 lbs. 1.65 - —
1 to 4, works.....100 lbs. 1.80 - —
Silicofluoride, dom., bbls....lb. No prices
import, bbls.....lb. .08½ Nom.
Stannate, dms. .....lb. .52½- .55½
Stearate, lump, powd., bbls., works..lb. .19 - .24
Sulphate, anhyd., bgs., bbls., c.l., works..100 lbs. 1.45 - 1.65
5 tons or over, works, 100 lbs. 1.70 - 1.90
less than 5 tons, works, 100 lbs. 1.95 - 2.15
cryst. (see Glauber's salt).
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.25 - —
l.c.l., 5 tons or over, dlvd., 100 lbs. 2.75 - —
less than 5 tons, dlvd., 100 lbs. 3.00 - —
solid, bbls., c.l., works.100 lbs. 3.00 - —
l.c.l., 5 tons or over, dlvd., 100 lbs. 3.50 - —
less than 5 tons, dlvd., 100 lbs. 3.75 - —
Sulphite, cryst., bgs., 100 lbs., works..lb. 2.10 - 2.35
bbls. .....100 lbs. 2.30 - 2.55
powd., bbls., c.l.....100 lbs. 5.25 - —
l.c.l., 5 or more....100 lbs. 5.50 - —
1 to 4.....100 lbs. 6.00 - —
Sulphocarbolate, bbls., dms...lb. .27 - .31
Sulphocyanide, dms., cns.....lb. .28 - .47
Sulphhydrate, liquid, 32%, basis 100%, dms., c.l., f.o.b. works..lb. .05½- —
l.c.l., works.....lb. .06 - —
single dm. lots, works..lb. .08 - —
tanks, works.....lb. .04½- —
Sulphoricinoleate, bbls.....lb. .12 - —
Thiosulphate (see Hyposulphite).
Tungstate, CP, kgs.....lb. No prices
tech., kgs.....lb. No prices
Solvent, naphtha, dms., wks..gal. .31 - —
tanks, E. of Omaha, frt. alld., gal. .26 - —
W. Coast, f.o.b. Minneapolis, Colo..gal. .26 - —
high-flash, dms., works..gal. .31 - —
tanks, E. of Omaha, frt. alld..gal. .26 - —
Sorbitol, com'l, dms., c.l., works, lb. .14¾- —
ton lots, contracts, works, lb. .15¼- —
smaller lots, works.....lb. .15¾- —
Soybean protein, bgs., c.l., works, lb. .11½- —
l.c.l., works.....lb. .11¾- .15
Sparteine sulphate, cns.....oz. 1.50 - 1.60
Spearmint leaves, bls.....lb. .30 - .31
Spikenard root, bls.....lb. .16 - .17

## Spruce Ext.—Wild Indigo Root

Spruce extract, reg., bbls., c.l., works..lb. .01¾- —
tanks, works..lb. .01¼- —
powd., super, bgs., c.l., works, lb. .04 - —
super, bbls., c.l., works..lb. .01¾- —
tanks, works..lb. .01¾- —
Squawvine, leaves, bls..lb. .14 - .15
Squill, white, bls..lb. No prices
powd., bbls., bxs..lb. No prices
St. Ignatius beans, bgs..lb. .45 - .46
St. John's Bread, edible, bls., lb. .12 - .13
inedible, bls..lb. .09 - .10
Starch, corn, pearl, bgs., f.o.b. Chicago..100 lbs. 2.90 - —
divd., N. Y..100 lbs. 3.25 - —
powd., bgs., f.o.b. Chicago, 100 lbs. 3.00 - —
divd., N. Y..100 lbs. 3.35 - —
Potato, dom., bgs... .lb. .04½- .05½
import, bgs..lb. No price
Rice, bbls..lb. .07½- .08½
Sweetpotato, bgs..lb. .06½- —
bbls..lb. .07 - —
Wheat, thick, boil, bgs..lb. .08 - —
Starch, iodide, bots..lb. 1.07 - —
Stavesacre, seed, bgs..lb. .35 - .40
Stearin, oleo, bbls..lb. .06¼ Nom.
Stillingia root, bls..lb. .07½- .08
Stonecrop, bls..lb. .07½- .08
Storax, cs..lb. .75 - .80
Stramonium leaves, bls..lb. .45 - .50
Strontium bromide, cns..lb. .52 - .55
Carbonate, NF, IV, 250-lb. bbls..lb. No prices
tech., 99-100%, precip., bbls., lb. .25 Nom.
Chloride, tech., bbls..lb. .20 - —
Iodide, bots., 5 lbs..lb. 3.06 - —
jars, 25 lbs..lb. 3.00 - —
Nitrate, dom., bbls., c.l., works, lb. .07¾- —
25 bbls. and over..lb. .06¼- —
1-24 bbls. and over..lb. .06¾- —
Strophanthus seed, Kombe, bgs..lb. 3.75 - 4.00
Strolyl acetate, bots..lb. 3.10 - 3.20
Strychnine, crystal., cns., 100-oz. lots..oz. .60 - —
Acetate, 25-oz. cns., 100-oz. lots..oz. .79 - —
Arsenate, 25-oz. cns., 100-oz. lots..oz. .82 - —
Arsenite, 25-oz. cns., 100-oz. lots..oz. .79 - —
Glycerophosphate, 25-oz. cns., 100-oz. lots..oz. .80 - —
Hydrochloride, 25-oz. cns., 100-oz. lots..oz. .79 - —
Hypophosphite, 25-oz. cns., 100-oz. lots..oz. .91 - —
Nitrate, 25-oz. cns., 100-oz. lots..oz. .73 - —
Phosphate, 25-oz. cns., 100-oz. lots..oz. .80 - —
Sulphate, cryst., cns., 100-oz. lots..oz. .80 - —
powd., cns., 100-oz. lots.oz. .40 - —
Sucrose Octa-acetate, denat. grade, bbls., l.c.l., works.lb. .45 - —
tech., bbls., l.c.l., works.....lb. .40 - —
Sugar coloring, bbls..gal. .75 - 1.45
Milk, bbls., c.l..lb. .16 - —
l.c.l., 10 or over..lb. .17 - —
less than 10..lb. .18 - —
Sulfanilamide, 5 lbs., bots.....lb. 1.70 - —
5lb. dms., 1,000 lbs., 1 delivery, lb. 1.25 - —
100 lbs..lb. 1.30 - —
25-lb. lots..lb. 1.45 - —
Sulfapyridine, powd., for hospitals, 5-grain bots..bot. 1.25 - —
Sulphonethylmethane, kgs.....lb. 6.75 - 6.80
Sulphonmethane, kgs..lb. 5.25 - —
Sulphur, crude, bulk, f.o.b. cars, mines, contracts..long ton.16.00 - —
f.o.b. steamers, Gulf ports, contract..long ton.17.50 - —
Flowers, USP, bgs., c.l., mine, 100 lbs. 2.80 - —
l.c.l., mine..100 lbs. 3.35 - —
bbls., c.l., mine..100 lbs. 3.15 - —
l.c.l., mine..100 lbs. 3.70 - —
Flour, comm'l., bgs., c.l., mine, 100 lbs. 1.40 - —
l.c.l., mine..100 lbs. 1.95 - —
Refined, cast, bgs., c.l., mine, 100 lbs. 1.95 - —
l.c.l., mine..100 lbs. 2.50 - —
heavy, USP, bgs., c.l., mine, 100 lbs. 2.35 - —
l.c.l., mine..100 lbs. 2.90 - —
bbls., c.l., mine..100 lbs. 2.70 - —
l.c.l., mine..100 lbs. 3.25 - —
light, USP, bgs., c.l., mine, 100 lbs. 2.45 - —
l.c.l., mine..100 lbs. 3.00 - —
bbls., c.l., mine..100 lbs. 2.80 - —
l.c.l., mine..100 lbs. 3.35 - —
lump, bgs., c.l., ruine..100 lbs. 1.95 - —
l.c.l., mine..100 lbs. 2.50 - —
bbls., c.l., mine..100 lbs. 2.10 - —
l.c.l., mine..100 lbs. 2.65 - —
roll, bgs., c.l., mine....100 lbs. 2.15 - —
l.c.l., mine..100 lbs. 2.70 - —
bbls., c.l., mine..100 lbs. 2.30 - —
l.c.l., mine..100 lbs. 2.85 - —
Rubbermakers, comm'l., 99½%, bgs., c.l., frt. alld..100 lbs. 2.00 - —
refined, 100%, bgs., c.l., frt. alld..100 lbs. 2.35 - —
Chloride, 55-gal. dms., c.l....lb. .03 - —
l.c.l., dms., works....lb. .04 - —
10-gal. dms., c.l..lb. .07 - —
l.c.l. ..lb. .08 - —
Dioxide, liquid, comm'l, cyls., work.)..lb. .07 - .09
multi-unit, cars, works..lb. .04½- .07
tanks, works..lb. .04 - .06
refrigeration, cyls., works..lb. .16 - .40
multi-unit cars, works..lb. .07½- .10
Iodide, bots., jars..lb. 3.90 - 4.05
Precipitated, USP, bbls..lb. .17 - .22
Sumac, grd., Sicilian, f.a.s...ton. No prices
leaf, f.a.s..ton. No prices
Extract, 42°, bbls..lb. .06 - .06¼
51°, bbls..lb. .07 - .07¼
stainless, bbls..lb. .09 - .11
Berries, bgs..lb. .10 - .12
Sunflower seed, Calif., large, bgs., lb. .06½- .07
medium, bgs..lb. .06 - .06½
poultry, bgs..lb. .05¼- .05¾
Superphosphate, guaranteed, 16%, bulk, f.o.b. cars, boat, Balto., ton. 8.50 - —
run-of-pile, basis 16%, bulk, same basis..ton. 8.00 - —
triple, 40-45%, a.p.a., bulk, f.o.b. Balto..unit-ton. .66 - —

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Talc, dom., Calif., 1, bgs., c.l., mills..ton.20.00 - —
2, bgs., c.l., mills.....ton.17.00 - —
N. Y., fibrous, 93-94%, 325 mesh, bgs., c.l., mills..ton.14.00 -16.00
l.c.l., mills.....ton.16.00 -18.00
96-98%, 325 mesh., c.l., mills..ton.15.00 -17.00
l.c.l., mills.....ton.17.00 -19.00
98-99½%, 325 mesh., bgs., c.l., mills..ton.15.25 -17.25
l.c.l., mills.....ton.17.25 -19.25
Talc, dom., N. Y., fibrous ,98-99½%, 325 mesh, bgs., l.c.l., mills.....ton.17.25 -19.25
99.85-99.95%, 325 mesh., bgs., c.l., mills..ton.17.00 -19.00
coarse, off color, bgs., c.l., mills..ton.11.00 -13.00
Ohio, flake, type grd., bgs., c.l., mills..ton.21.00 - —
l.c.l., mills.....ton.24.50 - —
Vermont, bgs., c.l., mills..ton.14.00 - —
l.c.l., ex whse.....ton.25.00 - —
Imp., Canad., bgs., c.l., mills, ton. No prices
French, high-grade, bgs., l.c.l., ex whse..ton. No prices
ordinary, bgs., c.l., ex dock, arrival..ton. No prices
l.c.l., ex whse.....ton. No prices
Italian, 1, bgs., ex dock, arrival..ton. No prices
ex whse.....ton. No prices
2, bgs, ex dock, arrival..ton. No prices
Tallow, extra, loose.....lb. .04¾- —
special, loose.....lb. .04¼- —
sulphonated, 55% (24% fat), dms., c.l..lb. .03¾- —
l.c.l. ..lb. .04¾- —
50% (43% fat), dms., c.l..lb. .05¼- —
l.c.l. ..lb. .06¼- —
50% (48% fat), dms., c.l..lb. .05¾- —
l.c.l. ..lb. .06¾- —
Tamarind, No. 1, bbls.....lb. .06 - .07
kegs .....keg. 6.00 - 8.00
Tankage, fertilizer, animal, dom., grd., 9% ammon., 10% b.p.l., bulk, basis N.Y..unit-ton. 2.50 & .10
10-11% ammon., 15% b.p.l., bulk, basis Chi..unit-ton. 2.65 & .10
feeding, unground, 9-11% ammon., 15-20% b.p.l., bulk, basis N.Y..unit-ton. 2.50 & .10
high-grade, bulk, Chicago, unit-ton. 2.80 & .10
import, S. Amer., 10-12% ammon., 15% b.p.l., bulk, c.i.f. ports, December shipments, unit-ton. 2.60 & .10
Tansy leaves, bls.....lb. .22 - .23
Tapioca flour, bgs..lb. .03 - .05
Tar acid oil, 15%, dms., c.l., works..gal. .22 - —
l.c.l., same basis.....gal. .24 - —
25%, dms., c.l., works....gal. .25 - —
l.c.l., same basis.....gal. .27 - —
Tar, pine, retort, dms., c.l., dlvd. E. cities..gal. .27 - —
ports .....gal. .26 - —
l.c.l. .....gal. .27 - —
tanks, dlvd. E. cities....gal. .21 - —
Tarragon herb, bgs.....lb. 1.10 Nom.
Tartar emetic, tech., fine gran., bbls., 5 or more..lb. .34¼ Nom.
less than 5.....lb. .35 Nom.
powd., bbls., 5 or more..lb. .34¼ Nom.
less than 5.....lb. .35 Nom.
USP, powd., bbls.....lb. .40 Nom.
Terebene, cns.....lb. .75 - .85
Terpinyl acetate, cns.....lb. .80 - .85
Terpin hydrate, bgs.....lb. .60 - .65
Terpineol, CP, cns.....lb. .26 - —
dms. .....lb. .23 - —
alpha, denat. grade, dms., c.l., wks., net wgt..lb. .17 - —
Terra alba (see Gypsum).
Tetrachloroethane, dms., wks..lb. .08 - .08½
Tetrachloroethylene, CP, dms..lb. .21½- —
tech. (see Perchloroethylene).
Tetralin, dms.....lb. .18 - —
Tetrasodium pyrophosphate (see soda pyrophosphate).
Thallium sulphate, 99% pure, bots., works..lb. 5.00 - 7.00
Theobromine, dms.....lb. 2.90 - 3.00
Sodiosalicylate, cns.....lb. 2.15 Nom.
dms. .....lb. 1.95 Nom.
5-lb. bots.....lb. 2.31 - 2.36
Thiocarbanilide, dms.....lb. .24 - —
Thorium, nitrate, cs., works...lb. 2.00 - —
Thyme, French, bls.....lb. .50 - .52
Spanish, bls.....lb. .12 - .12½
Thymol, dms., 100 lbs.....lb. 1.40 - —
cns., 25 lbs.....lb. 1.45 - 1.50
Iodide, kgs., 50 lbs.....lb. 3.40 - —
25 lbs.....lb. 3.50 - —
Thiamine hydrochloride, cns.gram. .98 - 1.00
Tin chloride (ous), anhyd.....lb. .47 - .47½
Crystals, bbls., kgs.....lb. .38 - .38½
Metal, Straits.....lb. .50¼- —
Oxide, bbls.....lb. .54 - .56
Tetrachloride, anhyd., bbls...lb. .24¾- —
Titanium, dioxide, bgs., c.l. (20 tons), frt. pd..lb. .13 - —
l.c.l., 5 tons, E. frt. pd..lb. .13½- —
Pac. Cst., ex whse....lb. .13¼- —
1,000-9,999 lbs., E. frt. pd. lb. .13½- —
Pac. Cst., ex whse....lb. .13½- —
50-999 lbs., E. frt. pd...lb. .13¾- —
Pac. Cst., ex whse....lb. .13¾- —
under 50 lbs., E. frt. pd.lb. .16 - —
Pac. Cst., ex whse....lb. .16 - —
bbls., c.l. (20 tons), frt. pd..lb. .13¼- —
l.c.l., 5 tons, E. frt. pd...lb. .13½- —
Pac. Cst., ex whse....lb. .13½- —
1,000-9,999 lbs., E. frt. pd., lb. .13¾- —
Pac. Cst., ex whse....lb. .13¾- —
50-999 lbs., E. frt. pd...lb. .14 - —
Pac. Cst., ex whse....lb. .14 - —
chalk resistant, bgs., c.l. (20 tons), frt. pd..lb. .25 - —
l.c.l., 5 tons, frt. pd....lb. .15¼- —
1,000-9,999 lbs., frt. pd.lb. .15½- —
50-999 lbs., frt. pd....lb. .15¾- —
Under 50 lbs., frt. pd..lb. .18 - —
bbls., c.l. (20 tons), frt. pd. lb. .15¼- —
l.c.l., 5 tons, E. frt. pd.lb. .15½- —
Pac. Cst., ex whse..lb. .15½- —
1,000-9,999 lbs., E frt. pd..lb. .15¾- —
Pac. Cst., ex whse..lb. .14¾- —
50-999 lbs., E. frt. pd.lb. .16 - —
Pac. Cst., ex whse..lb. .16 - —
high-hiding, bgs., c.l. (20 tons), frt. pd..lb. .14 - —
l.c.l., 5 tons, frt. pd...lb. .14½- —
1,000-9,999 lbs., frt. pd., lb. .14½- —
50-999 lbs., frt. pd...lb. .14¾- —
bbls., c.l. (20 tons), frt. pd..lb. .14½- —
l.c.l., 5 tons, E. frt. pd. lb. .14½- —
Pac. Cst., ex whse..lb. .14½- —
1,000-9,999 lbs., E. frt. pd..lb. .14¾- —
Pac. Cst., ex whse..lb. .14¾- —
50-999 lbs., E. frt. pd. lb. .15 - —
Pac. Cst., ex whse..lb. .15 - —
barium or magnesium base, bgs., c.l., D. frt. alld..lb. .05¼- —
l.c.l., dlvd.....lb. .05½- —
Pac. Cst., ex whse....lb. .05½- —
under 50 lbs., E. dlvd.lb. .05½- —
bbls., c.l., D., frt. alld...lb. .05¼- —
l.c.l. E. dlvd.....lb. .05¾- —
Pac. Cst., ex whse....lb. .05¾- —
under 50 lbs., E. dlvd..lb. .06½- —
Titanium, dioxide, calcium base, bgs., c.l., D. frt. alld. lb. .05 - —
l.c.l., dlvd.....lb. .05¼- —
Pac. Cst., ex whse....lb. .05½- —
under 50 lbs., E. dlvd..lb. .06 - —
bbls., c.l., D., frt. alld.....lb. .05¼- —
l.c.l., E. dlvd.....lb. .05½- —
Pac. Cst., ex whse....lb. .05½- —
under 50 lbs., E. dlvd..lb. .06¼- —
Tolidin base, distilled, kgs....lb. .96 - —
Tolu, balsam, cns.....lb. .80 - .85
Toluidin, mixed, dms.....lb. .26 - —
Toluol (toluene), 2° indus., dms., returnable..gal. .32 - —
tanks, E. of Omaha, frt. alld., gal. .27 - —
tanks, W. Coast, f.o.b. Minnequa, Colo..gal. .27 - —
1° nitration, dms, returnable, gal. .33½- —
tanks, E. of Omaha, frt. alld., gal. .28½- —
W. Coast, f.o.b. Minnequa, Colo..gal. .28½- —
Tonga vine, F, bls.....lb. .65 - .70
root, bls.....lb. .65 - .70
Tonka beans, Angostura, cks..lb. 2.40 - 2.50
Brazilian, Surinam, cs.....lb. .80 - .90
Triacetin, dms.....lb. .26 - —
Triamyl borate, dms., l.c.l., works, lb. .27 - —
Triamylamine, dms., c.l., works, lb. .77 - —
l.c.l., works.....lb. .78 - .80
tanks .....lb. .75 - —
Tributylamine, dms., c.l., works, lb. .07 - —
l.c.l., same basis.....lb. .07½- —
tanks .....lb. .06½- —
Tributyl citrate, ton lots, 475-lb. dms..lb. .24 - —
smaller lots.....lb. .26 - —
Phosphate, dms., l.c.l., dlvd..lb. .42 - —
cns., works.....lb. .46 - .48
Trichlorobenzene, dms., c.l., frt. alld..lb. .07 - —
l.c.l., same basis.....lb. .07¼- —
tanks .....lb. .06½- —
Trichlorethylene, dms., c.l., works, frt. alld., Zone 1..lb. .08 - —
l.c.l., same basis.....lb. .08¼- —
Zone 2, dms., c.l., works, frt. alld..lb. .08¼- —
l.c.l., same basis.....lb. .09 - —
Zone 3, dms., c.l., works, frt. alld..lb. .09 - —
l.c.l., same basis.....lb. .09½- —
Zone 4, dms., c.l., f.o.b., stock points..lb. .09 - —
l.c.l., same basis.....lb. .09½- —

All prices on trichlorethylene are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Zone 1 includes the following States:—Conn., Md., N. Y., Va., Ky., Me., N. J., Vt., W. Va., Mo., Tenn., Ind., Ia., Pa., R. I., Ill., Mich., Minn., Wis., Del., Mass., N. C., O., Omaha, Neb.; Kansas City, Kansas. Zone 2 includes Ala., Kan., except Kansas City; N. D., Ga., Neb., except Omaha; S. D., Miss., Ark., S. C., La., Okla. and Fla. Zone 3 includes Colo., N. M., Wyo., Texas and Eastern Montana. Zone 4 includes Arizona, Western Montana, Idaho, Ore., Nev., Wash., Utah and Cal.

Tricresyl phosphate, CP, cns., dlvd..lb. .40½- .51½
dms., c.l., dlvd.....lb. .34½- —
Tech., dms.....lb. .22 - —
500 lbs., dms.....lb. .22½- —
less than 500 lbs.....lb. .25½- .36½
Triethanolamine, dms., c.l., works, lb. .19 - —
l.c.l., works.....lb. .20 - —
tanks, works.....lb. .18 - —
Triethylamine, dms., l.c.l., works, lb. 1.05 - —
Triethyl citrate, ton lots, 500-lb. dms..lb. .24 - —
smaller lots.....lb. .26 - —
Triethyl phosphate, dms., dlvd., lb. .45 - —
Triethyleneglycol, dms., l.c.l., works..lb. .26 - —
Trimethyl phosphate, cns.....lb. .54 - .56
dms., dlvd.....lb. .50 - —
Trimethylamine, dms., c.l., dlvd., lb. 1.00 - —
l.c.l., dlvd.....lb. 1.05 - —
Triphenyl phosphate, dms.....lb. .38 - —
Tripoli, air-floated, bgs., c.l., works..ton.26.00 - —
double grd., bgs., c.l., works, ton.16.00 - —
once-grd., bgs., c.l., works..ton.14.50 - —
Trisodium phosphate (see Soda phosphate, tribasic).
Tungsten metal powd., 99%, dms., works..lb. No prices
Oxide, CP, kgs.....lb. No prices
Chem. grade, kgs.....lb. No prices
Turmeric root, Alleppey, bgs...lb. .07½- .08
Madras, bgs.....lb. .07¼- .07¾
Turpentine, spirits, gum, bbls., c.l., ex dock..gal. .43½- —
l.c.l., 10 ex dock.....gal. .45½- —
5 ex dock.....gal. .47½- —
wood, dest., dist., dms., c.l., dlvd. E. ports..gal. .35 - —
l.c.l. .....gal. .36 - —
tanks, dlvd. E. cities..gal. .30 - —
steam-dist., dms., c.l., dlvd.gal. .37 - —
l.c.l., dlvd.....gal. .40 - —
tanks, dlvd.....gal. .32 - —

## U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, kgs.....lb. 2.65 - 3.05
yellow, kgs.....lb. 1.75 - 2.00
Urea, dom., 46% N., bgs., 20 tons, f.o.b. Belle, W. Va., Searsport, Me., Norfolk, Wilmington, N. C., Charleston, Savannah, Jacksonville, Tampa, Pensacola, Mobile, Gulfport, New Orleans..ton.85.00 - —
5 tons, f.o.b. Baltimore, Boston, New York, Newark, Philadelphia, Wilmington, Del..ton.85.00 - —
smaller lots, f.o.b. Newark, New York, Philadelphia, ton.91.00 - —
any quantity, f.o.b. Belle, W. Va..ton.85.00 - —
Import, 40% N., bgs., 5 tons, f.o.b. Atl., Gulf ports or Belle, W. Va., shipt..ton. No prices
smaller lots, f.o.b. N. Y. whse..ton. No prices
pure, cs.....lb. .12 - —
Urea-ammonia, basis 42% N., bulk, c.l., f.o.b. Belle, W. Va., or Atl., Gulf ports.ton.57.40 - —
bags, same basis.....ton.59.40 - —
45% N., tanks, f.o.b. Belle, W. Va., or Atl., Gulf ports. ton.121.58 - —
37% N. (insoluble), f.o.b. Belle, W. Va., or Atl., Gulf ports..ton.127.00 - —
Uva ursi leaves, bls.....lb. .11 - .13

## V

Valerian root, bls.....lb. .95 - 1.00
Valonia, beards, bgs., f.a.s...ton. No price
cups, bgs., f.a.s.....ton. No price
Vanadium pentoxide, C.P., bgs., cns., works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins...lb. 9.00 Nom.
Mexican, tins.....lb. 9.25 Nom.
cuts, tins.....lb. 9.00 Nom.
South American, tins.....lb. 9.00 Nom.
Tahiti, tins.....lb. 4.75 - 5.00
Oleoresin, bots.....lb.18.00 -19.00
Vanillin, ex eugenol, 25-lb. tins, lb. 2.60 - —
5-lb. tins.....lb. 2.65 - —
1-lb. tins.....lb. 2.75 - —
ex guaiacol, 25-lb. tins.....lb. 2.50 - —
5-lb. tins.....lb. 2.55 - —
1-lb. tins.....lb. 2.65 - —
ex lignin, 25-lb. tins.....lb. 2.50 - —
5-lb. tins.....lb. 2.55 - —
1-lb. tins.....lb. 2.65 - —
Venice turpentine, true, cs.....lb. 1.25 - 1.30
Verdigris, bbls., kgs.....lb. .22 - .23
Vinyl acetate, cns., works.....lb. .25 - —
dms., c.l., 30,000 lbs. gross, works..lb. .14 - —
l.c.l., works.....lb. .15 - —
5 gals., dms., works.....lb. .25 - —
Violet, methyl, toner (see M).
V.M.P. naphtha (see petroleum naphtha, v.m.p.).

## W

Wahoo bark, bls.....lb. .40 - .41
tree .....lb. .19 - .22
Wattle bark, bgs., f.a.s.....ton.37.50 -39.50
Extract, solid, bgs.....lb. .03¾- —
Wax, bayberry, import, bgs...lb. .20 - .21
Bees, white, bleach, slabs, cs., 1 to 5 case lots..lb. .36½- —
cakes, 1 to 5 cs., lots...lb. .37½- —
discs, 1 to 5 cs., lots...lb. .38½- —
yellow, crude, Africa, 10-bg. lots..lb. .30 Nom.
1 bg.....lb. .30½ Nom.
Brazil, bgs., 5-ton lots..lb. .31 - .32
1 ton.....lb. .31½- .32½
500 lbs.....lb. .32 - .33
100 lbs.....lb. .32½- .33
refd. slabs, cs., bls.....lb. .35 - .36
Candelilla, bgs., 1 ton.....lb. .19 - .19½
Jobbing lots.....lb. .19½- .20
Carnauba, No. 3 chalky, bgs., 1 ton..lb. .62 - .63
5 bgs.....lb. .62½- .63½
1 bg.....lb. .63 - .64
N. C., 2, bgs., 1 ton.....lb. .69 - .70
N. C., 3, bgs., 1 ton.....lb. .62 - .63
5 bgs.....lb. .62½- .63½
1 bg.....lb. .63 - .64
refined, bgs.....lb. .65 - .66
yellow, No. 1, bgs., ton....lb. .73 - .74
5 bgs.....lb. .73½- .74½
1 bg.....lb. .74 - .75
No. 2, bgs.....lb. .72 - .73
Ceresin, dom., 138°, 140° m.p., bgs., 1 ton..lb. .11 - .11½
jobbing lots.....lb. .12 - .12½
150°-160° m.p., bgs., 1 ton..lb. .13 - .13½
jobbing lots.....lb. .14 - .14½
160° m.p., bgs., 1 ton.....lb. .13 - .13½
jobbing lots.....lb. .14 - .14½
Japan, cs.....lb. .18½- .19
Montan bgs., c.l.....lb. No prices
5 tons.....lb. No prices
less than 1 ton.....lb. No prices
Ozokerite, hard, green congeal, p. 66°-68° C., bgs..lb. No prices
70°-72° C., bgs.....lb. No prices
74°-76° C., bgs.....lb. No prices
Snow-white, pure, 76°-78° C., bgs..lb. No prices
yellow, natural, 76°-78° C., bgs..lb. No prices
Paraffin (see P).
Spermaceti, blocks, cs.....lb. .24 - .25
cakes, cs.....lb. .25 - .26
White lead (see Lead, white).
White pine bark, rossed, bls...lb. .07 - .08
White precipitate, powd., dms., 50 lbs. or more..lb. 2.54 - —
Whiting, chalk, com'l, dry-grd., blp. bgs., c.l., works..ton.16.00 -20.00
l.c.l., works.....ton.18.00 -22.00
bbls., c.l., works.....ton.19.00 -24.00
l.c.l., works.....ton.21.00 -26.00
pap. bgs., c.l., works..ton.15.00 -18.00
l.c.l., works.....ton.17.00 -20.00
wet-grad., blp., bgs., c.l., works..ton.18.50 -22.50
l.c.l., works.....ton.19.00 -23.00
bbls., c.l., works.....ton.21.00 -25.00
gilders, bolted, blp. bgs., c.l., works..ton.18.00 - —
l.c.l., works.....ton.19.00 - —
bbls., c.l., works.....ton.20.00 -21.00
l.c.l., works.....ton.21.00 -22.00
pap. bgs., c.l., works..ton.17.00 -18.50
l.c.l., works.....ton.18.00 -19.00
extra bolted, blp. bgs., c.l., works..ton.20.00 - —
l.c.l., works.....ton.21.00 - —
bbls., c.l., works.....ton.22.00 -23.00
l.c.l., works.....ton.23.00 -24.00
pap. bgs., c.l., works..ton.19.00 -20.50
l.c.l., works.....ton.20.00 -21.00
Paris white, blps., bgs., c.l., works..ton.19.00 - —
l.c.l., works.....ton.20.00 - —
bbls., c.l., works.....ton.22.50 -27.50
l.c.l., works.....ton.22.00 -28.00
pap. bgs., c.l., works..ton.19.60 -25.10
l.c.l., works.....ton.20.00 -26.50
limestone, air floated, 99.75%, 250 mesh, paper bags, c.l., ton. 9.65 - —
200 mesh paper bgs., c.l., same basis..ton. 8.60 - —
90%, 200 mesh, paper bgs., c.l., same basis..ton. 6.25 - —
gilders, bgs. (extra), c.l., works..ton.11.50 - —
l.c.l., 8-20 tons, works, ton.12.50 - —
4-8 tons, works.....ton.13.50 - —
2-4 tons, works.....ton.14.50 - —
extra bgs. (extra), c.l., works, ton.12.50 - —
l.c.l., 8-20 tons, works.ton.13.50 - —
4-8 tons, works.....ton.14.50 - —
2-4 tons, works.....ton.15.50 - —
putty grade, bgs. (extra), c.l., works..ton.11.00 - —
l.c.l., 8-20 tons, works.ton.12.50 - —
4-8 tons, works.....ton.13.00 - —
2-4 tons, works .....ton.14.00 - —
water-floated, bgs. (extra, c.l., works, ton.11.50 - —
l.c.l., 8-20 tons, works.ton.12.50 - —
4-8 tons, works.....ton.13.50 - —
2-4 tons, works.....ton.14.50 - —
Precipitated, bgs., c.l., works, ton.15.00 - —
l.c.l., 5 tons, works....ton.20.00 - —
smaller lots, works..ton.25.00 - —
Wild cherry bark, thick, natural, bls..lb. .07 - .08
rossed, bls.....lb. .05 - .06
thin, natural, bls.....lb. .07 - .08
rossed, green, bls.....lb. .10 - .11
Wild indigo root, bls.....lb. .13 - .14

| | | | |
|---|---|---|---|
| Witch-hazel extract, dist., NF, tax extra, bbls. | gal. | .40 | - .45 |
| leaves, bls. | lb. | .07 | - .09 |
| Witherite (see Barium carbonate, natural). | | | |
| Woodflour, dom., 60 mesh, bgs., c.l., f.o.b. N. Y. | ton. | 24.00 | -25.00 |
| 80 mesh, same basis | ton. | 26.00 | -28.00 |
| 100 mesh, same basis | ton. | 30.00 | -32.00 |
| import, 70 mesh, bgs., ex dock, | ton. | No prices | |
| 80 mesh, bgs., ex dock | ton. | No prices | |
| 100 mesh, bgs., ex dock | ton. | No prices | |
| 120 mesh, bgs., ex dock | ton. | No prices | |
| Wormseed, American, bgs. | lb. | .07 | - .08 |
| Levant, bgs. | lb. | 4.25 | - 4.50 |
| Wormwood, bls. | lb. | No prices | |

## X

| | | | |
|---|---|---|---|
| Xylol (xylene), indus., dms., returnable, works. | gal. | .31 | - — |
| tanks, E. of Omaha, frt. alld. | gal. | .26 | - — |
| tanks, W. Coast, f.o.b. Minnequa, Colo. | gal. | .26 | - — |
| 10°, dms., returnable, works, | gal. | .34 | - — |
| tanks, E. of Omaha, frt. alld. | gal. | .29 | - — |
| 5°, dms., returnable, works. | gal. | .41 | - — |
| tanks, E. of Omaha, frt. alld. | gal. | .39 | - — |
| 3°, dms., returnable, works. | gal. | .43 | - — |
| tanks, E. of Omaha, frt. alld. | gal. | .46 | - — |
| Xylidin, mixed, dms. | lb. | .35 | - .36 |

## Y

| | | | |
|---|---|---|---|
| Yara yara, cryst., cns. | lb. | 1.25 | - 1.55 |
| Yellow, arsenic sulphide, dom., bbls., f.o.b. New York | lb. | .55 | - — |
| bottles, same basis | lb. | .60 | - .64 |
| imp., bbls., same basis | lb. | .55 | - — |
| Cadmium, CP, import., bxs. | lb. | 1.35 | - 1.40 |
| lithopone, all shades, bbls., 1 ton, works., frt. alld. | lb. | .50 | - — |
| smaller lots, same basis | lb. | .55 | - — |
| kgs., ton lots, same basis, | lb. | .55 | - — |
| smaller lots, same basis, | lb. | .60 | - — |
| Sulphide, orange, bbls., works, | lb. | .75 | - — |
| Chrome, CP., bbls., dlvd., N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul contracts. | lb. | .13½- | — |
| open order | lb. | .14½- | — |
| Chrome yellow CP prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex., (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.). Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher dlvd. Pac. coast for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago. | | | |
| Dutch, pink, bbls. | lb. | .09 | - .11 |
| Hansa, bbls., same basis, chrome. | lb. | 1.37 | - — |
| primrose shade, bbls., same basis, chrome. | lb. | 1.75 | - — |
| Mercury oxide (see M). | | | |
| Ocher, Amer., golden A, bbls., works. | lb. | .06¼- | — |
| B, bbls., works. | lb. | .04½- | — |
| C, bbls., works. | lb. | .05¾- | — |
| yellow A, bbls., works. | lb. | .02¼- | — |
| B, bbls., works. | lb. | .02½- | — |
| C, bbls., works. | lb. | .02 - | — |
| D, bbls., works. | lb. | .0195- | — |
| E, bbls., works. | lb. | .01775- | — |
| F, bbls., works. | lb. | .01½- | — |
| G, bbls., works. | lb. | .01¼- | — |
| H, bbls., works. | lb. | .01⅜- | — |
| French, all shades, cks., c.l., ex dock, Balto, Boston, N. Orleans for import. | lb. | .02475 | Nom. |
| New York (f.o.b.). | lb. | .02⅝ | Nom. |
| Philadelphia for import. | lb. | .02⅝ | Nom. |
| ex dock San Pedro, San Francisco. | lb. | .0290 | Nom. |
| l.c.l., ex dock, Balto, Boston, N. Orleans. | lb. | .02575 | Nom. |
| New York | lb. | .02⅝ | Nom. |
| Phila., for import | lb. | .02⅝ | Nom. |
| Portland, Seattle | lb. | .03½ | Nom. |
| San Pedro, S. Francisco. | lb. | .03 | Nom. |
| ex whse., Balto, Boston, N. Orleans. | lb. | .02725 | Nom. |
| ex whse., Indianapolis, Kan. City, Milwaukee, St. Louis. | lb. | .03⅝ | Nom. |
| New York | lb. | .03 | Nom. |
| Pittsburgh | lb. | .03¼ | Nom. |
| Portland, Seattle | lb. | .03⅝ | Nom. |
| San Pedro, S. Francisco. | lb. | .03¼ | Nom. |
| f.o.b. N.Y., from dock. | lb. | .02⅝ | Nom. |
| from whse. | lb. | .03¼- | Nom. |
| Oxide, nat., bbls., c.l., f.o.b. Bethlehem, Easton, N.Y. | lb. | .04¼- | — |
| l.c.l., same basis | lb. | .04⅝- | — |
| synth., bbls., c.l., works. | lb. | .06¼- | — |
| l.c.l., same basis | lb. | .06⅝- | — |
| Persian orange (see O). | | | |
| Zinc, bbls., same basis, chrome CP, contracts. | lb. | .16 | - — |
| open order | lb. | .16 | - — |
| Navy specification type, contracts. | lb. | .16 | - — |
| open order | lb. | .16 | - — |
| Yellow dock root, dom., bls. | lb. | .17 | - .18 |
| Yellow root (xanthoriza), bls. | lb. | .11 | - .13 |
| Yerba santa leaves, bls. | lb. | .09 | - — |
| Yohimbine hydrochloride, vials. | oz. | 2.85 | - — |

## Z

| | | | |
|---|---|---|---|
| Zein, bgs., 1,000 lbs. or more, works. | lb. | .20 | - — |
| less than 1,000 lbs., works. | lb. | .25 | - — |
| Zinc acetate, tech., bbls., dlvd., | lb. | .15 | - .16 |
| USP, bbls., 250 lbs. | lb. | .27 | - — |
| kgs., 100 lbs. | lb. | .29 | - — |
| Arsenite, bgs., c.l., dealers, E. of Rockies. | lb. | .12 | - — |
| l.c.l., bgs. | lb. | .12½- | — |
| Zinc arsenite prices are on a frt. alld. basis to dest., in lots of 96 lbs. or over. | | | |
| Carbonate, tech., bbls. | lb. | .14 | - .16 |
| USP, precip., powd., bbls. | lb. | .32½- | — |
| 25 lb. dms. | lb. | .37½- | — |
| kgs. | lb. | .34½- | — |
| Zinc, chloride, tech., fused, dms., c.l., works. | 100 lbs. | 4.25 | - — |
| l.c.l., works. | 100 lbs. | 4.60 | - — |
| gran., dms., c.l., works, | 100 lbs. | 5.00 | - — |
| USP, 200-lb. dms. | lb. | .28 | - — |
| 25-lb. jars. | lb. | .31 | - — |
| solution, 50%, dms., c.l., works. | lb. | .0290- | — |
| l.c.l., works. | lb. | .04 | - .04¾ |
| tanks, works. | lb. | .0225- | — |
| Cyanide, kgs., works. | lb. | .33 | - — |
| Dust, bbls., c.l., dlvd. | lb. | .09¼- | — |
| l.c.l., bbls., dlvd. | lb. | .09¾- | — |
| Iodide, N. F., bots. | lb. | 4.25 | - — |
| jars | lb. | 4.20 | - — |
| Fluoride, bbls. | lb. | .20 | - .28 |
| Metal (see daily quotations in Market report). | | | |
| Oxide, pigment, dom., Amer., process, coml., lead free, bgs., c.l., dlvd. | lb. | .06½- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .06¾- | — |
| ex whse., Pac. cst. | lb. | .06¾- | — |
| bbls., c.l., dlvd. | lb. | .06¾- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .07 | - — |
| ex whse., Pac. cst. | lb. | .07 | - — |
| leaded, 5%, bgs., c.l., dlvd. | lb. | .06¾- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .06¾- | — |
| ex whse., Pac. cst. | lb. | .06¾- | — |
| bbls., c.l., dlvd. | lb. | .06¾- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .06¾- | — |
| ex whse., Pac. cst. | lb. | .06¾- | — |
| 35% bgs., c.l., dlvd. | lb. | .0616- | — |
| l.c.l., dlvd., except Pct. cst. | lb. | .0641- | — |
| ex whse., Pac. cst. | lb. | .0641- | — |
| bbls., c.l., dlvd. | lb. | .0641- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .0666- | — |
| ex whse., Pac. cst. | lb. | .0666- | — |
| 50%, bgs., c.l., dlvd., except Pac. cst. | lb. | .0618- | — |
| Pac. cst. | lb. | .0624- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .0643- | — |
| ex whse., Pac. cst. | lb. | .0643- | — |
| bbls., c.l., dlvd. | lb. | .0643- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .0668- | — |
| ex whse., Pac. cst. | lb. | .0668- | — |
| French process, com'l, lead free, bgs., c.l., dlvd. | lb. | .06½- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .06¾- | — |
| ex whse., Pac. cst. | lb. | .06¾- | — |
| bbls., c.l., dlvd. | lb. | .06¾- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .07 | - — |
| ex whse., Pac. cst. | lb. | .07 | - — |
| green seal, bgs., c.l., dlvd. | lb. | .08¼- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .08¾- | — |
| ex whse., Pac. cst. | lb. | .06½- | — |
| bbls., c.l., dlvd. | lb. | .08½- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .08¾- | — |
| ex whse., Pac. cst. | lb. | .08¾- | — |
| red seal, bgs., c.l., dlvd. | lb. | .07¾- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .08 | - — |
| ex whse., Pac. cst. | lb. | .08 | - — |
| bbls., c.l., dlvd. | lb. | .08 | - — |
| l.c.l., dlvd., except Pac. cst. | lb. | .08¼- | — |
| ex whse., Pac. cst. | lb. | .08¼- | — |
| white seal, bgs., c.l., dlvd. | lb. | .08¾- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .09 | - — |
| ex whse., Pac. cst. | lb. | .09 | - — |
| bbls., c.l., dlvd. | lb. | .09 | - — |
| l.c.l., dlvd., except Pac. cst. | lb. | .09¼- | — |
| ex whse., Pac. cst. | lb. | .09¼- | — |
| imported, gold seal, cks., ex whse. | lb. | No prices | |
| green seal, bbls., ex whse. | lb. | No prices | |
| white, seal, cks., ex whse. | lb. | No prices | |
| USP, bbls., c.l. | lb. | .09¾- | — |
| Palmitate, bbls. | lb. | .24½- | .27½ |
| Resinate, fused, pale, bbls. | lb. | .10 | - — |
| precip., dms., dlvd. | lb. | .15 | - — |
| Stearate, tech., precip., bbls., ctns., c.l. | lb. | .22 | - — |
| l.c.l., 1 ton | lb. | .23 | - — |
| 1,000-2,000 lbs. | lb. | .24 | - — |
| less than 1,000 lbs. | lb. | .25 | - — |
| USP, bbls. | lb. | .23 | - .30 |
| Sulphate, cryst., bgs., c.l. | 100 lbs. | 2.90 | - — |
| l.c.l. | 100 lbs. | 3.05 | - — |
| bbls., c.l. | 100 lbs. | 3.05 | - — |
| l.c.l. | 100 lbs. | 3.30 | - — |
| flake, bgs., c.l. | 100 lbs. | 3.25 | - — |
| l.c.l. | 100 lbs. | 4.00 | - — |
| bbls., c.l. | 100 lbs. | 3.40 | - — |
| l.c.l. | 100 lbs. | 4.15 | - — |
| powd., bgs., c.l. | 100 lbs. | 4.55 | - — |
| l.c.l. | 100 lbs. | 5.30 | - — |
| bbls., c.l. | 100 lbs. | 4.70 | - — |
| l.c.l. | 100 lbs. | 5.45 | - — |
| Sulphide, bgs., c.l. (20 tons), dlvd. | lb. | .07½- | — |
| l.c.l., dlvd. E. or ex whse., Pac. cst. | lb. | .07¾- | — |
| bbls., c.l., 20 bbls., c.l., (20 tons), dlvd. | lb. | .07¾- | — |
| l.c.l., dlvd. E. or ex whse., Pac. cst. | lb. | .08 | - — |
| barium, pigment, bgs., c.l., dlvd. | lb. | .05 | - — |
| l.c.l., dlvd. E. or ex whse., Pac. cst. | lb. | .05½- | — |
| calcium pigments, bgs., c.l., dlvd. | lb. | .05 | - — |
| l.c.l., dlvd. E. or ex whse., Pac. cst. | lb. | .05¼- | — |
| magnesium, pigment, bgs., c.l., dlvd. | lb. | .05¼- | — |
| l.c.l., dlvd. E. or ex whse., Pac. cst. | lb. | .05½- | — |
| Sulphocarbolate, NF., bbls., dms. | lb. | .24 | - .30 |
| Zinc-ammonia chloride, dms., c.l., works. | 100 lbs. | 5.15 | - — |
| l.c.l., works | 100 lbs. | 5.50 | - — |
| Zinc-iron oxide, pigment, bgs., c.l., dlvd. | lb. | .05¼- | — |
| l.c.l., dlvd., except Pac. cst. | lb. | .05⅝- | — |
| ex whse., Pac. cst. | lb. | .05⅝- | — |
| Zirconium nitrate, kgs., works. | lb. | 3.00 | - 4.00 |
| Oxide, crude, 70-75%, grd., bbls., works. | ton. | 75.00 | -100.00 |
| white, 98%, grd., kgs., works, | lb. | 1.80 | - 2.00 |

# Synthetic Resins and other Branded Paint Materials

## (Manufacturers' List Prices)

### A

| | | | |
|---|---|---|---|
| Abalyn (methyl abietate), dms., lots of 10, works. | lb. | .10 | - — |
| single dms., works. | lb. | .12 | - — |
| 5-gal. cans, works. | lb. | .17 | - — |
| Aroclors, distilled, dms., c.l., works. | lb. | .23 | - — |
| ton lots, works. | lb. | .25 | - — |
| single dms., works. | lb. | .27 | - — |
| undistilled, dms., c.l., works, | lb. | .18 | - — |
| ton lots, works. | lb. | .20 | - — |
| single dms., works. | lb. | .22 | - — |

### B

| | | | |
|---|---|---|---|
| Bakelite, alkyd resins, BR, 10025, bbls., 30,000 lbs., works | lb. | .28 | - — |
| 15,000 lbs., works. | lb. | .28½- | — |
| 5,000 lbs., works. | lb. | .29 | - — |
| XR, 10024, bbls., 30,000 lbs., works. | lb. | .45 | - — |
| 15,000 lbs., works. | lb. | .45½- | — |
| 5,000 lbs., works. | lb. | .46 | - — |
| carbic anhydride, oil modified, BR, 13630, 30,000 lbs., works, | lb. | .27 | - — |
| 15,000 lbs., works. | lb. | .27½- | — |
| 5,000 lbs., works. | lb. | .28 | - — |
| XR, 14590, 30,000 lbs., works. | lb. | .26 | - — |
| 15,000 lbs., works. | lb. | .26½- | — |
| 5,000 lbs., works. | lb. | .27 | - — |
| resin modified, BR, 13302, 30,000 lbs., works. | lb. | .15 | - — |
| 15,000 lbs., works. | lb. | .15½- | — |
| 5,000 lbs., works. | lb. | .16 | - — |
| dispersion resin, BK, 3962 dms., 30,000 lbs., works. | lb. | .2490- | — |
| 15,000 lbs., works. | lb. | .2540- | — |
| 5,000 lbs., works. | lb. | .2590- | — |
| XK, 6791, dms., 30,000 lbs., works. | lb. | .2540- | — |
| 15,000 lbs., works. | lb. | .2590- | — |
| 5,000 lbs., works. | lb. | .2640- | — |
| 13981, dms., 30,000 lbs., works. | lb. | .2860- | — |
| 15,000 lbs., works. | lb. | .2910- | — |
| 5,000 lbs., works. | lb. | .2960- | — |
| 14504, dms., 30,000 lbs., works. | lb. | .28 | - — |
| 15,000 lbs., works. | lb. | .28½- | — |
| 5,000 lbs., works. | lb. | .29 | - — |
| lacquer, XJ, 10433, dms., 30,000 lbs., works. | lb. | .37 | - — |
| 15,000 lbs., works. | lb. | .37½- | — |
| 5,000 lbs., works. | lb. | .38 | - — |
| XR, 2342, dms., 30,000 lbs., works. | lb. | .27 | - — |
| 15,000 lbs., works. | lb. | .27½- | — |
| 5,000 lbs., works. | lb. | .28 | - — |
| 3180, dms., 30,000 lbs., works. | lb. | .45 | - — |
| 15,000 lbs., works. | lb. | .45½- | — |
| 5,000 lbs., works. | lb. | .46 | - — |
| 4357, dms., 30,000 lbs., works. | lb. | .45 | - — |
| 15,000 lbs., works. | lb. | .45½- | — |
| 5,000 lbs., works. | lb. | .46 | - — |
| phenolic, 100%, BR, 254, bbls, 30,000 lbs., works. | lb. | .42 | - — |
| 15,000 lbs., works. | lb. | .42½- | — |
| 5,000 lbs., works. | lb. | .43 | - — |
| 3360, bbls., 30,000 lbs., works. | lb. | .36 | - — |
| 15,000 lbs., works. | lb. | .36½- | — |
| 5,000 lbs., works. | lb. | .37 | - — |
| 4036, bbls., 30,000 lbs., works. | lb. | .37 | - — |
| 15,000 lbs., works. | lb. | .37½- | — |
| 5,000 lbs., works. | lb. | .38 | - — |
| 6882, bbls., 30,000 lbs., works. | lb. | .40 | - — |
| 15,000 lbs., works. | lb. | .40½- | — |
| 5,000 lbs., works. | lb. | .41 | - — |
| 8900, bbls., 30,000 lbs., works. | lb. | .39 | - — |
| 15,000 lbs., works. | lb. | .39½- | — |
| 5,000 lbs., works. | lb. | .40 | - — |
| 9432, bbls., 30,000 lbs., works. | lb. | .29 | - — |
| 15,000 lbs., works. | lb. | .29½- | — |
| 5,000 lbs., works. | lb. | .30 | - — |
| 9434, bbls., 30,000 lbs., works. | lb. | .20 | - — |
| 15,000 lbs., works. | lb. | .20½- | — |
| 5,000 lbs., works. | lb. | .21 | - — |
| 10282, bbls., 30,000 lbs., works. | lb. | .32 | - — |
| 15,000 lbs., works. | lb. | .32½- | — |
| 5,000 lbs., works. | lb. | .33 | - — |
| 13468, bbls., 30,000 lbs., works. | lb. | .19¾- | — |
| 15,000 lbs., works. | lb. | .20¼- | — |
| 5,000 lbs., works. | lb. | .20¾- | — |
| 14634, bbls., 30,000 lbs., works. | lb. | .30 | - — |
| 15,000 lbs., works. | lb. | .30½- | — |
| 5,000 lbs., works. | lb. | .31 | - — |
| XR, 9517, bbls., 30,000 lbs., works. | lb. | .29 | - — |
| 15,000 lbs., works. | lb. | .29½- | — |
| 5,000 lbs., works. | lb. | .30 | - — |
| modified oil, BR, 302, bbls., 30,000 lbs., works. | lb. | .2870- | — |
| 15,000 lbs., works. | lb. | .2920- | — |
| 5,000 lbs., works. | lb. | .2970- | — |
| 2175, bbls., 30,000 lbs., works. | lb. | .2810- | — |
| 15,000 lbs., works. | lb. | .2860- | — |
| 5,000 lbs., works. | lb. | .2910- | — |
| resin, BR, 2072, bbls., 30,000 lbs., works. | lb. | .23 | - — |
| 15,000 lbs., works. | lb. | .23½- | — |
| 5,000 lbs., works. | lb. | .24 | - — |
| 2963, bbls., 30,000 lbs., works. | lb. | .22 | - — |
| 15,000 lbs., works. | lb. | .22½- | — |
| 5,000 lbs., works. | lb. | .23 | - — |
| 9366 , bbls., 30,000 lbs., works. | lb. | .18½- | — |
| 15,000 lbs., works. | lb. | .19 | - — |
| 5,000 lbs., works. | lb. | .19½- | — |
| 11504, bbls., 30,000 lbs., works. | lb. | .18 | - — |
| 15,000 lbs., works. | lb. | .18½- | — |
| 5,000 lbs., works. | lb. | .19 | - — |
| 11544, bbls., 30,000 lbs., works. | lb. | .18 | - — |

## Witch Hazel Extract—Cumar

| | | | |
|---|---|---|---|
| Bakelite, modified, resin, BR, 11544, 15,000 lbs., works. | lb. | .18½- | — |
| 5,000 lbs., works. | lb. | .19 | - — |
| solutions, XJ, 180, dms., 30,000 lbs., works. | lb. | .1970- | — |
| 15,000 lbs., works. | lb. | .2020- | — |
| 5,000 lbs., works. | lb. | .2070- | — |
| 2681, dms., 30,000 lbs., works. | lb. | .2520- | — |
| 15,000 lbs., works. | lb. | .2570- | — |
| 5,000 lbs., works. | lb. | .2620- | — |
| 13574, bbls., 30,000 lbs., works. | lb. | .30 | - — |
| 15,000 lbs., works. | lb. | .30½- | — |
| 5,000 lbs., works. | lb. | .31 | - — |
| Beckacite, modified phenolic, 1100, dms., 1-9, frt. pd. | lb. | .14½- | — |
| 1101, dms., 1-9, frt. pd. | lb. | .13 | - — |
| 1102, dms., 1-9, frt. pd. | lb. | .12½- | — |
| 1106, dms., 1-9, frt. pd. | lb. | .14 | - — |
| 1107, dms., 1-9, frt. pd. | lb. | .13 | - — |
| 1108, dms., 1-9 frt. pd. | lb. | .11 | - — |
| 1112, dms., 1-9, frt. pd. | lb. | .14½- | — |
| 1113, dms., 1-9, frt. pd. | lb. | .12 | - — |
| 1116, dms., 1-9, frt. pd. | lb. | .14½- | — |
| P-146, dms., 1-9, frt. pd. | lb. | .11½- | — |
| P-147, dms., 1-9, frt. pd. | lb. | .12 | - — |
| 1121, dms., 1-9, frt. pd. | lb. | .17½- | — |
| 1122, dms., 1-9, frt. pd. | lb. | .14½- | — |
| 1123, dms., 1-9, frt. pd. | lb. | .14½- | — |
| 1124, dms., 1-9 frt. pd. | lb. | .15½- | — |
| nonphenolic, 1110, dms., 1-9, frt. pd. | lb. | .12¾- | — |
| 1111, dms., 1-9, frt. pd. | lb. | .13 | - — |
| 1114, dms., 1-9, frt. pd. | lb. | .12½- | — |
| 1120, dms., 1-9, frt. pd. | lb. | .13 | - — |

Beckacite prices in lots of 10 dms., or more are ½c. per lb. less than above; in carloads, 1c. per lb. less. These prices apply in N. E. and Mid-Atl. States, Ill., Ind., Ky., Mich., Minn., N. C., Ohio, Va., W. Va., Wis., and St. Louis, Mo.; add ¾c. per lb. on less than carloads and ½c. per lb. on carloads to Ark., Iowa, Kan., Mo. (except St. Louis), Neb., N. D., Okla., S. D., all South. States, and Dallas and Houston, Tex.; for Calif. add ¾c. per lb. on less than carloads and ½c. per lb. on carloads of regular items covered by contract, on items not shown in this list and items not covered by contract which must be shipped direct from Detroit, Mich., or Elizabeth, N. J., add 2c. per lb. on less than carloads and 1c. per lb. on carloads; carload prices listed above apply on shipments by water from Elizabeth, N. J., ex dock at Los Angeles, San Francisco, or Seattle; add 2c. per lb. on less than carloads and 1c. per lb. on carloads to Tex. (except Dallas and Houston) and all other points in the U. S. not mentioned in the foregoing.

| | | | |
|---|---|---|---|
| Beckamine, 3440, ex. lt., dms., 1-9, frt. pd. | lb. | .22½- | — |
| P-2, dms., 1-9, frt. pd. | lb. | .12 | - — |
| P-138, dms., 1-9, frt. pd. | lb. | .21½- | — |
| P-196, dms., 1-9, frt. pd. | lb. | .24 | - — |
| P-198, dms., 1-9, frt. pd. | lb. | .36 | - — |

Beckamine prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less; subject to same geographical differentials as Beckacite.

| | | | |
|---|---|---|---|
| Beckolin, No. 17, dark, dms., 1-9, frt. pd. | lb. | .16½- | — |
| No. 27, light, dms., 1-9, frt. pd., | lb. | .18½- | — |

Beckolin prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less; subject to same geographical differentials as Beckacite.

| | | | |
|---|---|---|---|
| Beckopol, 1400, dms., 1-9, frt. pd. | lb. | .17½- | — |

Beckopol prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less; subject to same geographical differentials as Beckacite.

| | | | |
|---|---|---|---|
| Beckosol, emulsion, 1500, dms., 1-9, frt. pd. | lb. | .11½- | — |
| 1501, dms., 1-9, frt. pd. | lb. | .12½- | — |
| Solid, 1, dms., 1-9, frt. pd. | lb. | .27 | - — |
| 3, dms., 1-9, frt. pd. | lb. | .23 | - — |
| 7, dms., 1-9, frt. pd. | lb. | .23 | - — |
| 13, dms., 1-9, frt. pd. | lb. | .23 | - — |
| 18, dms., 1-9, frt. pd. | lb. | .23 | - — |
| 19, dms., 1-9, frt. pd. | lb. | .28 | - — |
| 24, dms., 1-9, frt. pd. | lb. | .31 | - — |
| 31, dms., 1-9, frt. pd. | lb. | .23 | - — |
| 32, dms., 1-9, frt. pd. | lb. | .22 | - — |
| 40, dms., 1-9, frt. pd. | lb. | .19 | - — |
| Solution, nonphenolic, 1309, dms., 1-9, frt. pd. | lb. | .18½- | — |
| 1319, dms., 1-9, frt. pd. | lb. | .19½- | — |
| 1321, dms., 1-9, frt. pd. | lb. | .17½- | — |
| 1940, dms., 1-9, frt. pd. | lb. | .09½- | — |
| 1941, dms., 1-9, frt. pd. | lb. | .09½- | — |
| P-238, dms., 1-9, frt. pd. | lb. | .18½- | — |
| wrintex, dms., 1-9, frt. pd. | lb. | .1640- | — |
| phenol modified, 1303, dms., 1-9, frt. pd. | lb. | .13½- | — |
| 1304, dms., 1-9, frt. pd. | lb. | .18½- | — |
| 1320, dms., 1-9, frt. pd. | lb. | .14 | - — |
| 1325, dms., 1-9, frt. pd. | lb. | .13 | - — |
| 1328, dms., 1-9, frt. pd. | lb. | .12 | - — |
| 1329, dms., 1-9, frt. pd. | lb. | .12 | - — |
| phenol modified and oil extended, 1, dms., 1-9, frt. pd. | lb. | .14½- | — |
| 2, dms. 1-9, frt. pd. | lb. | .14 | - — |
| 1316, dms., 1-9, frt. pd. | lb. | .15½- | — |
| 1326, dms., 1-9. frt. pd. | lb. | .15 | - — |
| P-239, dms., 1-9, frt. pd. | lb. | .11½- | — |
| phenol, pure, alkyd, 1306, dms., 1-9, frt. pd. | lb. | .12½- | — |
| 1307, ex. lt., dms., 1-9, frt. pd. | lb. | .14½- | — |
| light, dms., 1-9, frt. pd. | lb. | .13½- | — |
| 1308, dms., 1-9, frt. pd. | lb. | .14½- | — |
| 1313, ex. lt., dms., 1-9, frt. pd. | lb. | .13½- | — |
| light, dms., 1-9, frt. pd. | lb. | .12½- | — |
| 1318, dms., 1-9, frt. pd. | lb. | .17½- | — |
| 1323, ex. lt., dms., 1-9, frt. pd. | lb. | .14½- | — |
| light, dms., 1-9, frt. pd. | lb. | .13½- | — |
| 1324, dms., 1-9, frt. pd. | lb. | .25½- | — |
| 1331, dms., 1-9, frt. pd. | lb. | .12½- | — |
| 1332, dms., 1-9, frt. pd. | lb. | .12 | - — |
| 1333, dms., 1-9, frt. pd. | lb. | .15½- | — |
| 1334, dms., 1-9, frt. pd. | lb. | .13½- | — |
| P-7, dms., 1-9, frt. pd. | lb. | .14½- | — |
| P-48, dms., 1-9, frt. pd. | lb. | .12½- | — |
| P-94, dms., 1-9, frt. pd. | lb. | .16½- | — |
| P-236, dms., 1-9, frt. pd. | lb. | .13 | - — |
| P-270, dms., 1-9, frt. pd. | lb. | .13½- | — |

Beckosol, solid, prices in lots of 10 dms. or more are ¾c. per lb. less than above; in carloads, 1½c. per lb. less; prices of other Beckosols are ½c. per lb. less in lots of 10 dms. or more, 1c. per lb. less in carloads; all are subject to the same geographical differentials as Beckacite.

### C

| | | | |
|---|---|---|---|
| Cumar, AX, dms., works. | lb. | .06 | - — |
| BX, dms., works. | lb. | .06 | - — |
| CX, dms., gross weight, works, | lb. | .05 | - — |
| DX, dms., gross weight, works, | lb. | .04½- | — |
| EX, dms., gross weight, works, | lb. | .04½- | — |

# 3 WAYS TO LICK THAT WOOD-OIL SUBSTITUTE PROBLEM!

Just as there's "more than one way to skin a cat," there's more than one way to lick the wood-oil substitute situation. In fact, Durez offers *three*—and they're dandies!

First, there's Durez 209—a terpene phenolic that produces an excellent finish with high alkali resistance, overnight dry and excellent boiling water resistance. 209 can be used with straight alkali-refined perilla . . . no china wood being needed.

Then, there's Durez 210 which gives splendid color and color stability, plus a tough, fast-drying film and better than average alkali and water resistance.

Finally, there's Durez 220, noted for the hardness of film it produces together with exceptionally fast dry. Like the others, it gives good gloss and toughness and is an excellent "mixer" with wood-oil substitutes.

Tests show that these Durez resins will permit the substitution of linseed, fish, soybean, dehydrated castor, and other lower priced oils for china wood up to 75 per cent. And if you wish, all three can be combined to embody the desirable qualities of each! For more information and suggested formulations, write Durez Plastics & Chemicals, Inc., 532 Walck Rd., N. Tonawanda, N.Y.

**DUREZ PLASTICS & CHEMICALS, INC.**

RESINS THAT FIT THE JOB

GLYPTAL
It is the aim of the General Electric Company to furnish to the manufacturers of finishes the highest quality obtainable in alkyd resins.
GENERAL ELECTRIC


## Cumar—Neville Resin

| | | | |
|---|---|---|---|
| Cumar, FX, dms., gross weight, works | lb. | .05 | - — |
| HDX, dms., gross weight, works, | lb. | .05 | - — |
| MH, col. 1, dms, works | lb. | .11 | - — |
| 1½-2, dms., works | lb. | .10 | - — |
| 2½-3½, dms., works | lb. | .09 | - — |
| 9, dms, works | lb. | .06 | - — |
| M.S., dms., works | lb. | .10 | - — |
| P, 10°-90° C., col. 2½ and darker, dms., works | lb. | .10 | - — |
| R.G.V., dms., works | lb. | .07 | - — |
| RH, dms., works | lb. | .10 | - — |
| R.S., dms., works | lb. | .10 | - — |
| S, dms., works | lb. | .06¾ | - — |
| Special soft, dms., works | lb. | .10 | - — |
| T3, dms., gross weight, works, | lb. | .06¾ | - — |
| T5, dms., gross weight, works, | lb. | .06¼ | - — |
| T9, dms., gross weight, works, | lb. | .06 | - — |
| V, col. ½, dms., works | lb. | .12 | - — |
| 1, dms., works | lb. | .11 | - — |
| 1½-2, dms., works | lb. | .10 | - — |
| 2½ and darker, dms., works, | lb. | .09 | - — |
| W, col., ½, dms., works | lb. | .13 | - — |
| 1, dms., works | lb. | .12 | - — |
| 1½-2, dms., works | lb. | .11 | - — |
| 2½ and darker, dms., works, | lb. | .10 | - — |

Cumar prices includes frt. equald., with Pittsburgh; prices on contracts are ¼c. per pound lower.

### D

| | | | |
|---|---|---|---|
| Durite, 1,301 pale, one drum and over | lb. | .25 | - — |
| smaller lots | lb. | .26 | - — |
| 1,321, c.l. | lb. | .40 | - — |
| 2,000 lbs. to c.l. | lb. | .41 | - — |
| smaller lots | lb. | .42 | - — |

All Durite prices are f.o.b. Phila., Pa., with freight allowed east of Rocky Mts.

### E

| | | | |
|---|---|---|---|
| Esterol, solid, Grade A, c.l., dlvd. | lb. | .22 | - — |
| 10 dms. or more, dlvd | lb. | .22¾ | - — |
| 9 dms., or less, dlvd | lb. | .23½ | - — |
| B, c.l., dlvd. | lb. | .21½ | - — |
| 10 dms. or more, dlvd | lb. | .22¼ | - — |
| 9 dms., or less, dlvd | lb. | .23 | - — |
| D, c.l., dlvd | lb. | .21½ | - — |
| 10 dms. or more, dlvd | lb. | .22¼ | - — |
| 9 dms. or less, dlvd | lb. | .23 | - — |
| H-1, c.l., dlvd | lb. | .22 | - — |
| 10 dms. or more, dlvd | lb. | .22¾ | - — |
| 9 dms., or less, dlvd | lb. | .23½ | - — |
| PV, c.l., dlvd | lb. | .21½ | - — |
| 10 dms. or more, dlvd | lb. | .22¼ | - — |
| 9 dms. or less, dlvd | lb. | .23 | - — |
| 1-L, c.l., dlvd | lb. | .22 | - — |
| 10 dms. or more, dlvd | lb. | .22¾ | - — |
| 9 dms. or less, dlvd | lb. | .23½ | - — |
| 575, c.l., dlvd | lb. | .23 | - — |
| 10 dms. or more, dlvd | lb. | .23¾ | - — |
| 9 dms. or less, dlvd | lb. | .24½ | - — |
| 701, c.l., dlvd | lb. | .22 | - — |
| 10 dms. or more, dlvd | lb. | .22¾ | - — |
| 9 dms. or less, dlvd | lb. | .23½ | - — |
| 750, c.l., dlvd | lb. | .21 | - — |
| 10 dms. or more, dlvd | lb. | .21¾ | - — |
| 9 dms., or less, dlvd | lb. | .22½ | - — |
| 809, c.l., dlvd | lb. | .22 | - — |
| 10 dms. or more, dlvd | lb. | .22¾ | - — |
| 9 dms. or less, dlvd | lb. | .23½ | - — |
| 830, c.l., dlvd | lb. | .22½ | - — |
| 10 dms. or more, dlvd | lb. | .23¼ | - — |
| 9 dms. or less, dlvd | lb. | .24 | - — |
| Solution, Grade A, c.l., dlvd | lb. | .13 | - — |
| 10 dms. or more, dlvd | lb. | .13½ | - — |
| 9 dms. or less, dlvd | lb. | .14 | - — |
| B, c.l., dlvd | lb. | .11¾ | - — |
| 10 dms. or more, dlvd | lb. | .12¼ | - — |
| 9 dms. or less, dlvd | lb. | .12¾ | - — |
| D, c.l., dlvd | lb. | .11¾ | - — |
| 10 dms. or more, dlvd | lb. | .12¼ | - — |
| 9 dms. or less, dlvd | lb. | .12¾ | - — |
| E, c.l., dlvd | lb. | .14 | - — |
| 10 dms. or more, dlvd | lb. | .14½ | - — |
| 9 dms. or less, dlvd | lb. | .15 | - — |
| H-1, c.l., dlvd | lb. | .15 | - — |
| 10 dms. or more, dlvd | lb. | .15½ | - — |
| 9 dms. or less, dlvd | lb. | .16 | - — |
| PV, c.l., dlvd | lb. | .13½ | - — |
| 10 dms. or more, dlvd | lb. | .14 | - — |
| 9 dms. or less, dlvd | lb. | .14½ | - — |
| 1-L, c.l., dlvd | lb. | .13 | - — |
| 10 dms. or more, dlvd | lb. | .13½ | - — |
| 9 dms. or less, dlvd | lb. | .14 | - — |
| 562, c.l., dlvd | lb. | .13 | - — |
| 10 dms. or more, dlvd | lb. | .13½ | - — |
| 9 dms. or less, dlvd | lb. | .14 | - — |
| 575, c.l., dlvd | lb. | .13½ | - — |
| 10 dms. or more, dlvd | lb. | .14 | - — |
| 9 dms. or less, dlvd | lb. | .14½ | - — |
| 640-N, c.l., dlvd | lb. | .12 | - — |
| 10 dms. or more, dlvd | lb. | .12½ | - — |
| 9 dms. or less, dlvd | lb. | .13 | - — |
| 660-N, c.l., dlvd | lb. | .10½ | - — |
| 10 dms. or more, dlvd | lb. | .11 | - — |
| 9 dms. or less, dlvd | lb. | .11½ | - — |
| 701, c.l., dlvd | lb. | .12 | - — |
| 10 dms. or more, dlvd | lb. | .12½ | - — |
| 9 dms. or less, dlvd | lb. | .13 | - — |
| 747, c.l., dlvd | lb. | .11¼ | - — |
| 10 dms. or more, dlvd | lb. | .11¾ | - — |
| 9 dms. or less, dlvd | lb. | .12¼ | - — |
| 750, c.l., dlvd | lb. | .13½ | - — |
| 10 dms. or more, dlvd | lb. | .14 | - — |
| 9 dms. or less, dlvd | lb. | .14½ | - — |
| 809, c.l., dlvd | lb. | .12 | - — |
| 10 dms. or more, dlvd | lb. | .12½ | - — |
| 9 dms. or less, dlvd | lb. | .13 | - — |
| 830, c.l., dlvd | lb. | .13½ | - — |
| 10 dms. or more, dlvd | lb. | .14 | - — |
| 9 dms. or less, dlvd | lb. | .14½ | - — |
| 1800, c.l., dlvd | lb. | .12¼ | - — |
| 10 dms. or more, dlvd | lb. | .12¾ | - — |
| 9 dms. or less, dlvd | lb. | .13¼ | - — |
| 1825, c.l., dlvd | lb. | .14 | - — |
| 10 dms. or more, dlvd | lb. | .14½ | - — |
| 9 dms. or less, dlvd | lb. | .15 | - — |
| 2185, c.l., dlvd | lb. | .10½ | - — |
| 10 dms. or more, dlvd | lb. | .11 | - — |
| 9 dms. or less, dlvd | lb. | .11½ | - — |
| 2195, c.l., dlvd | lb. | .13½ | - — |
| 10 dms. or more, dlvd | lb. | .14 | - — |
| 9 dms. or less, dlvd | lb. | .14½ | - — |
| 2633, c.l., dlvd | lb. | .11½ | - — |
| 10 dms. or more, dlvd | lb. | .12 | - — |
| 9 dms. or less, dlvd | lb. | .12½ | - — |
| 2600, c.l., dlvd | lb. | .15 | - — |
| 10 dms. or more, dlvd | lb. | .15½ | - — |
| 9 dms. or less, dlvd | lb. | .16 | - — |

Esterol resin prices listed above prevail only for delivery to Me., N. H., Vt., Mass., R. I., Conn., Ill., N. Y., N. J., Pa., Del., Md., Va., W. Va., N. C., Ky., Ohio, Mich., Ind., St. Louis, Mo., Wis., and Montreal and Toronto, Can. Add ¼c. per lb. to quoted prices for delivery to Ala., Ark., Fla., Ga., Iowa, Kan., La., Minn., Mo. (except St. Louis), Miss., Neb., N. D., Okla., S. C., S. D., Tenn. and Dallas and Houston, Tex. Add ¾c. per pound for delivery to Ariz., Colo., Idaho, Mont., Nev., N. M., Tex. (except Dallas and Houston), Utah, Wyo., and other points in the United States and Canada not listed above.

### G

| | | | |
|---|---|---|---|
| G, resin, dms., gross weight, works | lb. | .07½ | - — |

G resin prices on contracts terminating Dec., 1940, are ¼c., per pound lower; Los Angeles and San Francisco ex warehouse, 3c. per pound extra.

| | | | |
|---|---|---|---|
| 2033, cl., dlvd | lb. | .11½ | - — |
| Guai-a-phene, 10-gal. cns., works, | gal. | 2.57 | - — |
| 5-gal. cns., works | gal. | 2.62 | - — |
| 1-gal. cns., works | gal. | 2.82 | - — |
| dms., works | gal. | 2.50 | - — |

### H

| | | | |
|---|---|---|---|
| Hercolyn (hydrogenated methyl abietate), dms., lots of 10, works | lb. | .15 | - — |
| single dms., works | lb. | .17 | - — |
| cns., works | lb. | .22 | - — |
| Hydrogum, P-190, c.l., dms., frt. pd. | lb. | .12 | - — |
| l.c.l., 10 dms., frt. pd | lb. | .12½ | - — |
| 1-9 dms., frt. pd | lb. | .13 | - — |

Hydrogum prices are subject to the same geographical differentials as Beckacite.

### J

Jozite (see zinc-iron oxide pigment in regular price list above).

### K

| | | | |
|---|---|---|---|
| Kadox (zinc oxide), black or red label, bgs., c.l., dlvd. | lb. | .06½ | - — |
| l.c.l., dlvd. E. of Rockies | lb. | .06¾ | - — |
| Pac. coast, ex whse. | lb. | .06¾ | - — |
| bbls., c.l., dlvd. | lb. | .06¾ | - — |
| l.c.l., dlvd. E. of Rockies | lb. | .07 | - — |
| Pac. coast, ex whse. | lb. | .07 | - — |
| No. 25, bgs., c.l., dlvd. | lb. | .07¾ | - — |
| l.c.l., dlvd. E. of Rockies, | lb. | .08 | - — |
| Pac. coast, ex whse. | lb. | .08 | - — |
| bbls., c.l., dlvd. | lb. | .08 | - — |
| l.c.l., dlvd. E. of Rockies, | lb. | .08¼ | - — |
| Pac. coast, ex whse. | lb. | .08¼ | - — |
| Katalised oil, 666, dms., c.l., frt. pd. | lb. | .23½ | - — |
| l.c.l., frt. pd. | lb. | .23 | - — |

Katalised oil prices are subject to the same geographical differentials as Beckacite.

| | | | |
|---|---|---|---|
| Kopol, 500, dms., 1-9, frt. pd. | lb. | .18½ | - — |
| 501, dms., 1-9, frt. pd. | lb. | .16½ | - — |
| 502, dms., 1-9, frt. pd. | lb. | .15 | - — |

Kopol prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less; subject to same geographical differentials as Beckacite.

| | | | |
|---|---|---|---|
| R-C copal, cracked nut, dms., c.l., frt. pd. | lb. | .12 | - — |
| l.c.l., frt. pd. | lb. | .12½ | - — |

R-C copal prices are subject to the same geographical differentials as Beckacite.

### L

| | | | |
|---|---|---|---|
| Lewisol resin, modified alkyd, No. 1, c.l., dlvd. | lb. | .11¼ | - — |
| l.c.l., 10 bbls. or 8 dms., dlvd. | lb. | .11½ | - — |
| smaller quantities, dlvd. | lb. | .12¼ | - — |
| No. 2, c.l., dlvd. | lb. | .12 | - — |
| l.c.l., 10 bbls. or 8 dms., dlvd. | lb. | .12½ | - — |
| smaller quantities, dlvd. | lb. | .13 | - — |
| No. 2L, c.l., dlvd. | lb. | .12¼ | - — |
| l.c.l., 10 bbls. or 8 dms., dlvd. | lb. | .12¾ | - — |
| smaller quantites, dlvd. | lb. | .13¼ | - — |
| No. 3, c.l., dlvd. | lb. | .16½ | - — |
| l.c.l., 10 dms., dlvd. | lb. | .17½ | - — |
| 1-9 dms., dlvd. | lb. | .18½ | - — |
| No. 18, c.l., dlvd. | lb. | .11 | - — |
| l.c.l., 10 bbls. or 8 dms., dlvd. | lb. | .11½ | - — |
| smaller quantities, dlvd. | lb. | .12 | - — |
| No. 24, c.l., dlvd. | lb. | .12 | - — |
| l.c.l., 10 bbls. or 8 dms., dlvd. | lb. | .12½ | - — |
| smaller quantities, dlvd. | lb. | .13 | - — |
| No. 28, c.l., dlvd. | lb. | .12 | - — |
| l.c.l., 8 dms., dlvd. | lb. | .12½ | - — |
| 1-7 dms., dlvd. | lb. | .13 | - — |
| No. 33, c.l., dlvd. | lb. | .12 | - — |
| l.c.l., 8 dms., dlvd. | lb. | .12½ | - — |
| 1-7 dms., dlvd. | lb. | .13 | - — |
| Modified phenolics, No. 101, c.l., dlvd. | lb. | .17½ | - — |
| l.c.l., 8 dms., dlvd. | lb. | .18 | - — |
| 1-7 dms., dlvd. | lb. | .18½ | - — |
| No. 115, c.l., dlvd. | lb. | .10½ | - — |
| l.c.l., 10 bbls. or 8 dms., dlvd. | lb. | .11 | - — |
| smaller quantities, dlvd. | lb. | .11½ | - — |
| No. 120, c.l., dlvd. | lb. | .12 | - — |
| l.c.l., 10 bbls. or 8 dms., dlvd. | lb. | .12½ | - — |
| smaller quantities, dlvd. | lb. | .13 | - — |
| No. 125, c.l., dlvd. | lb. | .11 | - — |
| l.c.l., 10 bbls. or 8 dms., dlvd. | lb. | .11½ | - — |
| smaller quantities, dlvd. | lb. | .12 | - — |
| No. 150, c.l., dlvd. | lb. | .13½ | - — |
| l.c.l., 10 bbls. or 8 dms., dlvd. | lb. | .14 | - — |
| smaller quantities, dlvd. | lb. | .14½ | - — |
| No. 300, c.l., dlvd. | lb. | .30 | - — |
| l.c.l., 8 dms., dlvd. | lb. | .30½ | - — |
| 1-7 dms., dlvd. | lb. | .31 | - — |
| No. 305, c.l., dlvd. | lb. | .11 | - — |
| l.c.l., 8 dms., dlvd. | lb. | .11½ | - — |
| 1-7 dms., dlvd. | lb. | .12 | - — |
| No. 310, c.l., dlvd. | lb. | .13½ | - — |
| l.c.l., 8 dms., dlvd. | lb. | .14 | - — |
| 1-7 dms., dlvd. | lb. | .14½ | - — |
| No. 320, c.l., dlvd. | lb. | .13 | - — |
| l.c.l., 8 dms., dlvd. | lb. | .13½ | - — |
| 1-7 dms., dlvd. | lb. | .14 | - — |

### N

| | | | |
|---|---|---|---|
| Neo-Fat drying oil, 17 T.G., dms., c.l., dlvd. | lb. | .10¼ | - — |
| 19 T.G., dms., c.l., dlvd. | lb. | .13½ | - — |
| 19 T.G. bodied, dms., c.l., dlvd. | lb. | .14¾ | - — |
| fatty acids, 3R, dms., c.l., dlvd. | lb. | .08½ | - — |
| 17, dms., c.l., dlvd. | lb. | .09 | - — |
| 19, dms., c.l., dlvd. | lb. | .11½ | - — |

Neo-fat prices are ¼c. per lb. higher in Texas, ¾c. higher on Pacific Coast.

| | | | |
|---|---|---|---|
| Nevillac, pale, hard, dms., works, | lb. | .13 | - — |
| hard, 85-95° C, dms., works | lb. | .11 | - — |
| soft, 65-75°C, dms., works | lb. | .11 | - — |

Nevillac prices on contracts terminating Dec., 1940, are ¼c. per pound lower; Los Angeles and San Francisco ex whse., 3c. per pound extra.

| | | | |
|---|---|---|---|
| Neville resin, R-1 nevindene, col. ½, dms., works | lb. | .13 | - — |
| R-3, nevindene, col. 1, dms., works | lb. | .12 | - — |
| R-5, nevindene, col. 1½-2, dms., works | lb. | .11 | - — |
| R-6, nevindene, col. 2½-3½, dms., works | lb. | .10 | - — |
| R-7, N.P.S., col. below 3, dms., works | lb. | .12 | - — |
| R-8, N.P.S., col. below 3, dms., works | lb. | .12½ | - — |
| R-9, hard, col. ½, dms., works | lb. | .12 | - — |
| R-10, hard, col. 1, dms., works | lb. | .11 | - — |

R-11, hard, col. 1½-2, dms., works..lb. .10 - —
R-12, hard, col. 2½-3½, dms., works..lb. .09 - —
R-13, medium, col. ½, dms., works..lb. .12 - —
R-14, medium, col. 1, dms., works..lb. .11 - —
R-15, medium, col. 1½-2 dms., works..lb. .10 - —
R-16, medium, col. 2½-4, dms., works..lb. .09 - —
R-16-A, medium, col. 7-10, dms., works..lb. .06½- —
R-17, medium soft, col. 3½-8, dms., works..lb. .10 - —
R-19, medium soft, col. 3½-8, dms., works..lb. .10 - —
R-21, soft, col. 3½-8, dms., works..lb. .10 - —
R-22, special, soft, col. 3½-8, dms., works..lb. .10 - —
R-27, medium soft, col. 1, dms., works..lb. .12½- —
R-28, medium soft, col. 1½-2, dms., works..lb. .11½- —
R-29, medium soft, col. 2½-8, dms., works..lb. .10½- —
465, 110-125° C., dms., gross weight, f.o.b. Pittsburgh..lb. .03 - —
Modified polystyrene, LX-228, 90-110° C., col. 3-3½, dms.lb. .45 - —
LX-229, 125-140° C., col. 3-4, dms..lb. .35 - —
LX-230, 125-140° C., col. 2-3, dms..lb. 1.10 - —
LX-231, 145-160° C., col. 2-3, dms..lb. .90 - —

Neville resin prices, except 465 resin, are freight equalized with Phila.; prices on contracts terminating Dec., 1940, are ¼c. per pound lower; Los Angeles and San Francisco ex whse., 3c. per pound extra. Modified polystyrene resins are 5c. per lb. additional for less than full drum shipments and are f.o.b. Neville Island, Pa.

Nevillite, "V," water-white, 100-lb. dms., works..lb. 1.25 - —
No. 1, water-white, 100-lb. dms., works..lb. .65 - —
No. 2, prime-white, 100-lb. dms., works..lb. .55 - —
No. 3, very light straw, 100-lb. dms., works..lb. .50 - —
No. 4, very light straw, 100-lb. dms., works..lb. .42 - —
oil, dms., works.....lb. 1.40 - —
Nevinol, dms. works.....lb. .13 - —
oil, heavy, rfd., dms., works, lb. .10 - —
Notol, tanks, f.o.b. Pittsburgh, gal. .23 - —
dms., returnable.....gal. .28 - —
Nuba, 1, 80-95°C., dms., gross weight, works..lb. .0265- —
2, 100-125°C., dms., gross weight, works..lb. .0265- —
3x, 135-150°C., dms., gross weight, works..lb. .04 - —

Nuba resin prices on contracts terminating December, 1940, are ¼c. per pound lower; Los Angeles and San Francisco ex whse., 3c. per pound extra.

Nuodex drier, cobalt, 6%, 400-lb. pkgs..lb. .28½- —
11½%, 100-lb. pkgs.....lb. .52 - —
cobalt acetate, 100-lb. pkgs., lb. .80½- —
iron, 6%, 400-lb. pkgs.....lb. .13½- —
11%, 100-lb. pkgs.....lb. .23 - —
lead, 24%, 450-lb. pkgs.....lb. .12½- .13½
32%, 450-lb. pkgs.....lb. .16 - —
34%, 100-lb. pkgs.....lb. .16¾- —
40%, 100-lb. pkgs.....lb. .19¾- —
lead 30%, cobalt 3%, 150-lb. pkgs..lb. .28¼- —
lead 30%, manganese 3%, 150-lb. pkgs..lb. .21 - —
manganese, 60%, 400-lb. pkgs., lb. .13 - .14
10½%, 100-lb. pkgs.....lb. .21¾- —
zinc, 8%, 400-lb. pkgs.....lb. .14 - —
10%, 400-lb. pkgs.....lb. .17 - —
14%, 100-lb. pkgs.....lb. .23¼- —
Nuodite, cobalt, 18%, 100-lb. pkgs., lb. .71½- —
lead, 64%, 100-lb. pkgs.....lb. .23 - —
manganese, 24%, 100-lb. pkgs., lb. .30 - —

All prices are f.o.b. customers' plants, East of Denver.

Nypene resin, dms., c.l., works, lb. .16 - —
l.c.l. .....lb. .16½- —

## P

Paradene, No. 1, 75-99°C., dms., gross wt., works..lb. .04½- —
2, 100-124°C., dms., gross wt., works..lb. .04½- —

Paradene prices on contract, terminating Dec., 1940, are ¼c. lower; prices are freight equalized with Philadelphia, Pa.

Paradura resin, grade AV, c.l., dlvd..lb. .25 - —
10 pkgs. or more, dlvd.....lb. .26 - —
9 pkgs. or less, dlvd.....lb. .27 - —
C, c.l., dlvd.....lb. .29½- —
10 pkgs. or more, dlvd.....lb. .30½- —
9 pkgs. or less, dlvd.....lb. .31½- —
10-P, c.l., dlvd.....lb. .32 - —
10 pkgs. or more, dlvd.....lb. .33 - —
9 pkgs. or less, dlvd.....lb. .34 - —
46, c.l., dlvd.....lb. .21½- —
10 pkgs. or more, dlvd.....lb. .22½- —
9 pkgs. or less, dlvd.....lb. .23½- —
273, c.l., dlvd.....lb. .23 - —
10 pkgs. or more, dlvd.....lb. .24 - —
9 pkgs. or less, dlvd.....lb. .25 - —
367, c.l., dlvd.....lb. .32 - —
10 pkgs. or more, dlvd.....lb. .33 - —
9 pkgs. or less, dlvd.....lb. .34 - —
540, c.l., dlvd.....lb. .32 - —
10 pkgs. or more, dlvd.....lb. .33 - —
9 pkgs. or less, dlvd.....lb. .34 - —
Paranol resin, extra hard, No. 1, c.l., dlvd..lb. .14½- —
10 pkgs. or more, dlvd.....lb. .15 - —
9 pkgs. or less, dlvd.....lb. .15½- —
Extra hard, No. 2, c.l., dlvd.lb. .14 - —
10 pkgs. or more, dlvd.....lb. .14½- —
9 pkgs. or less, dlvd.....lb. .15 - —
Extra hard, No. 3, c.l., dlvd.lb. .13½- —
10 pkgs. or more, dlvd.....lb. .14 - —
9 pkgs. or less, dlvd.....lb. .14½- —
Hard, No. 1, c.l., dlvd.....lb. .12½- —
10 pkgs. or more, dlvd.....lb. .13 - —
9 pkgs. or less, dlvd.....lb. .13½- —
Hard, No. 2, c.l., dlvd.....lb. .12 - —
10 pkgs. or more, dlvd.....lb. .12½- —
9 pkgs. or less, dlvd.....lb. .13 - —
Hard, No. 3, c.l., dlvd.....lb. .11½- —
10 pkgs. or more, dlvd.....lb. .12 - —
9 pkgs. or less, dlvd.....lb. .12½- —
100, c.l., dlvd.....lb. .15½- —
10 pkgs. or more, dlvd.....lb. .16 - —
9 pkgs. or less, dlvd.....lb. .16½- —
105, extra light, c.l., dlvd.....lb. .12 - —
10 pkgs. or more, dlvd.....lb. .12½- —
9 pkgs. or less, dlvd.....lb. .13 - —
105, dark, c.l., dlvd.....lb. .11½- —
10 pkgs. or more, dlvd.....lb. .12 - —
9 pkgs. or less, dlvd.....lb. .12½- —
105-D, extra light, c.l., dlvd.lb. .11½- —
10 pkgs. or more, dlvd.....lb. .12 - —
9 pkgs. or less, dlvd.....lb. .12½- —
200, c.l., dlvd.....lb. .16 - —
10 pkgs. or more, dlvd.....lb. .16½- —
9 pkgs. or less, dlvd.....lb. .17 - —
500, hard, c.l., dlvd.....lb. .13½- —
10 pkgs. or more, dlvd.....lb. .14 - —
9 pkgs. or less, dlvd.....lb. .14½- —
500, extra hard, c.l., dlvd.....lb. .16 - —
10 pkgs. or more, dlvd.....lb. .16½- —
9 pkgs. or less, dlvd.....lb. .17 - —
800, extra light, c.l., dlvd.....lb. .14½- —
10 pkgs. or more, dlvd.....lb. .15 - —
9 pkgs. or less, dlvd.....lb. .15½- —
800, dark, c.l., dlvd.....lb. .13 - —
10 pkgs. or more, dlvd.....lb. .13½- —
9 pkgs. or less, dlvd.....lb. .14 - —
830, c.l., dlvd.....lb. .14 - —
10 pkgs. or more, dlvd.....lb. .14½- —
9 pkgs. or less, dlvd.....lb. .15 - —
900, c.l., dlvd.....lb. .11½- —
10 pkgs. or more, dlvd.....lb. .12 - —
9 pkgs. or less, dlvd.....lb. .12½- —
1574, c.l., dlvd.....lb. .13 - —
10 pkgs. or more, dlvd.....lb. .13½- —
9 pkgs. or less, dlvd.....lb. .14 - —
1600, c.l., dlvd.....lb. .13½- —
10 pkgs. or more, dlvd.....lb. .14 - —
9 pkgs. or less, dlvd.....lb. .14½- —
1639, c.l., dlvd.....lb. .12 - —
10 pkgs. or more, dlvd.....lb. .12½- —
9 pkgs. or less, dlvd.....lb. .13 - —
1640, c.l., dlvd.....lb. .13½- —
10 pkgs. or more, dlvd.....lb. .14 - —
9 pkgs. or less, dlvd.....lb. .14½- —
1650, c.l., dlvd.....lb. .12 - —
10 pkgs. or more, dlvd.....lb. .12½- —
9 pkgs. or less, dlvd.....lb. .13 - —
1700, c.l., dlvd.....lb. .14 - —
10 pkgs. or more, dlvd.....lb. .14½- —
9 pkgs. or less, dlvd.....lb. .15 - —
LB, No. 1, c.l., dlvd.....lb. .13 - —
10 pkgs. or more, dlvd.....lb. .13½- —
9 pkgs. or less, dlvd.....lb. .14 - —
LB, No. 5, c.l., dlvd.....lb. .13 - —
10 pkgs. or more, dlvd.....lb. .13½- —
9 pkgs. or less, dlvd.....lb. .14 - —
Paranol resin, LB, No. 89, c.l., dlvd..lb. .11½- —
10 pkgs. or more, dlvd.....lb. .12 - —
9 pkgs. or less, dlvd.....lb. .12½- —
LN, 100, c.l., dlvd.....lb. .13½- —
10 pkgs. or more, dlvd.....lb. .14 - —
9 pkgs. or less, dlvd.....lb. .14½- —

Paradura and paranol resin prices listed above prevail only for delivery to Me., N. Y., Vt., Mass., R. I., Conn., Ill., N. Y., N. J., Pa., Del., Md., Va., W. Va., N. C., Ky., Ohio, Mich., Ind., St. Louis, Mo.; Wis., and Montreal and Toronto, Can. Add ¼c. per lb. to quoted prices for delivery to Ala., Ark., Fla., Ga., Iowa, Kan., La., Minn., Mo. (except St. Louis); Miss., Neb., N. D., Okla., S. C., S. D., Tenn., and Dallas and Houston, Tex. Add ¾c. per pound for delivery to Ariz., Colo., Idaho, Mont., Nev., N. M., Tex. (except Dallas and Houston), Utah, Wyo., and other points in the United States and Canada not listed above.

Phenester, color 3½-5, dms., works, lb. .17 - —
P.H.O., dms., works.....lb. .19 - —
Pliolite, powder, ton lots, works, lb. .66 - —
smaller lots, works.....lb. .69 - .74
P1235, ton lots, works.....lb. .67 - —
smaller lots, works.....lb. .70 - .74
P1269, ton lots, works.....lb. .67 - —
smaller lots, works.....lb. .70 - .74
Pliolite resin, clear, ton lots, works..lb. .75 - —
smaller lots, works.....lb. .79 - .84
No. 20, ton lots, works.....lb. .75 - —
smaller lots works.....lb. .79 - .84
No. 40, ton lots, work.....lb. .75 - —
smaller lots, works.....lb. .79 - .84

## R

Resinous oil, No. XI, dms., works, lb. .019 - —

## S

Staybelite resin, c.l. (36,000 lbs.), f.o.b. cars East of and including N. D., S. D., Neb., Kan., Okla. and Tex..lb. .06 - —
l.c.l., dms. (500 lbs.), same basis..lb. .06½- —
smaller lots, f.o.b. Hattiesburg, Miss., or Hercules, Del..lb. .20 - —
Styrene resin, XRS-1, 30,000 lbs., works..lb. .50 - —
15,000 lbs., works.....lb. .50½- —
5,000 lbs., works.....lb. .51 - —
XRS-2, 30,000 lbs., works....lb. .55 - —
15,000 lbs., works.....lb. .55½- —
5,000 lbs., works.....lb. .56 - —
Super-beckacite, pure phenolic, 1001, dms., 1-9, frt. pd..lb. .31 - —
1003, dms., 1-9, frt. pd....lb. .30 - —
2000, dms., 1-9, frt, pd....lb. .26 - —
2667, dms., 1-9, frt. pd....lb. .21 - —
3000, dms., 1-9, frt. pd....lb. .43½- —
3005, dms., 1-9, frt. pd....lb. .41½- —

Super-beckacite prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less, with exception of 3000 and 3005, where 10 dms. are 1½c. less and carloads 3c.; prices subject to same geographical differentials as beckacite.

Super-beckamine, 3500, dms., 1-9, frt. pd..lb. .29½- —
Surfex, bgs., c.l., frt. alld. up to 25c. per 100 lbs..ton.35.00 - —
BB, bgs., c.l., frt. alld. up to 25c. per 100 lbs..ton.40.00 - —
MM, bgs., c.l., frt. alld. up to 25c. per 100 lbs..ton.38.00 - —
Syntex resin, 13, 1-9 dms..100 lbs.14.50 - —
14, 1-9 dms.....100 lbs.15.00 - —
17, 1-9 dms.....100 lbs.13.25 - —
18, 1-9 dms.....100 lbs.14.75 - —
19-A, 1-9 dms.....100 lbs.15.25 - —
20-A, 1-9 dms.....100 lbs.13.25 - —
21-B, 1-9 dms.....100 lbs.13.25 - —
22, 1-9 dms.....100 lbs.15.00 - —
23, 1-9 dms.....100 lbs.13.25 - —
28, 1-9 dms.....100 lbs.17.00 - —
29, 1-9 dms.....100 lbs.12.50 - —
32, 50%, 1-9 dms.....100 lbs.12.50 - —
34, 1-9 dms.....100 lbs.15.75 - —
40, 1-9 dms.....100 lbs.15.00 - —
119, 1-9 dms.....100 lbs.19.00 - —
219, 1-9 dms.....100 lbs.14.50 - —
H-3, 1-9 dms.....100 lbs.13.00 - —
H-5, 1-9 dms.....100 lbs.14.50 - —

## Neville Resin—Vinylite

Syntex resin, H-10, 1-9 dms.. 100-lbs.15.25 - —
H-12, 1-9 dms.....100 lbs.16.00 - —
H-15, 1-9 dms.....100 lbs.11.50 - —
H-46, 1-9 dms.....100 lbs.12.50 - —

Syntex prices in lots of 10 dms. or more are 50c. per 100 lbs. less than above. These prices are f.o.b. Louisville, Ky., freight prepaid and allowed to destinations in New England, the Middle Atlantic States, Va., N. C., S. C., W. Va., Ohio, Ky., Tenn., Ind., Ill., Mich., Wis., Iowa and Mo. and the cities of Minneapolis and St. Paul, Minn.; Atlanta, Ga.; Omaha and Lincoln, Neb., and Montreal and Toronto, Canada. For shipment to other points East of the Rockies and not listed above, add 1c. per pound.

## V

Vinylite resins, AYAA, AYAF, AYAT, c.l. (30,000 lbs.), paper bags, f.o.b. cars, South Charleston, W. Va., freight paid to destination E. of Mississippi river....lb. .40 - —
2,000 to 9,999 lbs., cns., same basis..lb. .43 - —
200 to 1,999 lbs., cns., same basis..lb. .45 - —
1 to 199 lbs., cns., same basis..lb. .60 - —
AYAB, cns., 200 to 1,999 lbs., same basis..lb. .52 - —
1 to 199 lbs., same basis.lb. .67 - —
AYAW, cns., 200 to 1,999 lbs., same basis..lb. .52 - —
1 to 199 lbs., same basis.lb. .67 - —
QYNA, c.l. (30,000 lbs.), paper bags, f.o.b. cars South Charleston, W. Va..lb. .48 - —
10,000 to 29,999 lbs., cns., same basis..lb. .50 - —
2,000 to 9,999 lbs., cns., same basis..lb. .52½- —
200 to 1,999 lbs., cns., same basis..lb. .55 - —
1 to 199 lbs., cns., same basis..lb. .65 - —
VYHF, VYLF, VYNW, VYRR, c.l. (30,000 lbs.), paper bags, same basis...lb. .48 - —
10,000 to 29,999 lbs., cns., same basis..lb. .50 - —
2,000 to 9,999 lbs., cns., same basis..lb. .52½- —
200 to 1,999 lbs., cns., same basis..lb. .55 - —
1 to 199 lbs., cns., same basis..lb. .65 - —
VYHH, c.l. (30,000 lbs.), paper bags, same basis, lb. .52 - —
10,000 to 29,999 lbs., cns., same basis..lb. .54 - —
2,000 to 9,999 lbs., cns., same basis..lb. .55½- —
200 to 1,999 lbs., cns., same basis..lb. .57 - —
1 to 199 lbs., cns., same basis..lb. .67 - —
VYNS, c.l. (30,000 lbs.), paper bags, same basis, lb. .68 - —
10,000 to 29,999 lbs., cns., same basis..lb. .70 - —
2,000 to 9,999 lbs., cns., same basis..lb. .72½- —
200 to 1,999 lbs., cns., same basis..lb. .75 - —
1 to 199 lbs., cns., same basis..lb. .80 - —
XYSG, paper bags, 200 to 1,999 lbs., cns., same basis..lb. 1.25 - —
1 to 199 lbs., cns., same basis..lb. 1.40 - —
solutions, adhesive, AYAF, dm. lots, same basis..gal. 2.10 - —
smaller lots, same basis.gal. 2.50 - —
XL5041, 20 dms., same basis, gal. 2.00 - —
dm. lots, same basis....gal. 2.25 - —
smaller lots, same basis.gal. 2.50 - —
XL5075, 20 dms., same basis, gal. 2.15 - —
dm. lots, same basis....gal. 2.40 - —
smaller lots, same basis.gal. 2.65 - —

Adhesive solutions in 1 to 5 gal. quantities are shipped in non-returnable containers. Extra charge of 40c. for 1-gal. cans. 5-gal. containers included in price. Drum lots are shipped in 55-gal. non-returnable drums.

# Pharmaceuticals Output Gained 3.1% in 1939

**An increase of 3.1 percent in the value of products manufactured in the drugs and medicine industries was shown in 1939, compared with 1937, according to preliminary figures compiled from returns of the Census of Manufactures for 1939 by the Department of Commerce. A summary of the industry by product, kind and value follows:—**

| | 1939. | 1937. |
|---|---|---|
| Drugs and medicines (including drug grinding) industry, all products, total value | $364,985,404 | *$353,853,522 |
| Drugs and medicines produced in the industry | 329,456,262 | *316,158,279 |
| Other products (not classified in this industry)† | 35,529,142 | *37,695,243 |
| Drugs and medicines made as secondary products in other industries | 32,286,498 | *28,021,173 |
| Drugs and medicines sold to physicians | $178,930,487 | *$142,335,840 |
| Alkaloids and derivatives, made for sale:— | | |
| Total ounces | 37,246,279 | *18,955,603 |
| Total value | $8,900,149 | *$8,620,289 |
| Caffeine:— | | |
| Ounces | 19,246,080 | 13,451,456 |
| Value | $2,055,557 | $1,344,772 |
| Ephedrine:— | | |
| Ounces | 403,237 | |
| Value | $593,778 | |
| Other (including brucine, codeine, morphine, quinine, strychnine and nicotine, except nicotine sulphate):— | | *5,504,147 |
| Ounces | 17,596,962 | *$7,275,517 |
| Value | $6,250,814 | |
| Biological products, total value | $21,767,222 | *$16,769,864 |
| For human use:— | | |
| Antitoxins | 1,570,283 | *2,568,351 |
| Bacterins | 907,875 | *874,890 |
| Serums | 1,799,128 | *1,638,782 |
| Vaccines | 2,301,587 | 1,914,630 |
| Viruses | 264,531 | *457,797 |
| Other (not classified above) | 2,583,216 | 2,022,296 |
| For animal use:— | | |
| Antitoxns | 94,572 | *116,195 |
| Bacterins | 1,292,848 | *775,064 |
| Serums | 7,832,942 | *4,721,602 |
| Vaccines | 1,567,120 | *622,344 |
| Viruses | 961,644 | 707,635 |
| Other (not classified above) | 591,476 | 350,278 |
| Others sold to physicians | $148,263,116 | *$116,945,687 |
| Prepared intramuscular, subcutaneous and intravenous products:— | | |
| U.S.P. and N.F. (including arsphenamines) | 9,726,174 | 7,790,524 |
| Special formulas | 4,694,033 | 4,449,466 |
| Liquid preparations (tinctures, fluid extracts, syrups, elixirs, solutons, suspensions, etc.):— | | |
| U.S.P. and N.F. | 10,794,136 | *10,671,848 |
| Special formulas | 19,268,009 | *20,270,156 |
| Dry preparations (pills, tablets, powders salts, etc.):— | | |
| U.S.P. and N.F. | 15,362,845 | *8,860,283 |
| Special formulas | 26,317,483 | *22,552,166 |
| Ointments, cerates, suppositories, globules, etc:— | | |
| U.S.P. andN.F. | 1,819,690 | *1,980,989 |
| Special formulas | 3,816,399 | *3,092,493 |
| Pharmaceutical metals and their salts:— | | |
| U.S.P. and N.F. | $1,119,309 | $580,882 |
| Special formulas | 1,634,828 | 1,444,460 |
| Synthetic chemical medicinals:— | | |
| dicinals:— | | |
| U.S.P. and N.F. | 2,739,683 | |
| Special formulas | 7,910,509 | *7,922,542 |
| Gland products:— | | |
| U.S.P. and N.F. | 5,580,879 | *5,311,315 |
| Special formulas | 11,319,092 | 8,954,555 |
| Vitamin products:— | | |
| U.S.P. and N.F. | 4,295,999 | *3,290,478 |
| Special formulas | 18,934,151 | *9,823,530 |
| Other (not classified above, including samples, etc.) | 2,929,897 | ¶ |
| Drugs and medicines in specially prepared packages, advertised for sale to the general public, total value | $166,577,263 | *$184,309,381 |
| Liquid preparations (tinctures, fluid extracts, syrups, elixirs, solutions, suspensions, etc.):— | | |
| U.S.P. and N.F. | 9,769,986 | *12,242,736 |
| Special formulas | 52,354,766 | *60,569,437 |
| Dry preparations (pills, tablets, powders, salts, etc.):— | | |
| U.S.P. and N.F. | 5,368,354 | *5,658,068 |
| Special formulas | 55,305,312 | *63,058,437 |
| Ointments, cerates, suppositories, globules, etc.:— | | |
| U.S.P. and N.F. | 3,715,807 | *4,210,163 |
| Special formulas | 17,332,626 | *20,853,413 |
| Pharmaceutical metals and their salts (bromides, citrates, bismuth, etc.):— | | |
| U.S.P. and N.F. | 252,361 | *198,294 |
| Special formulas | 933,647 | *1,812,042 |
| Synthetic chemical medicinals | 926,362 | *830,626 |
| Gland products:— | | |
| U.S.P. and N.F. | 483,259 | *496,642 |
| Special formulas | 832,179 | 393,021 |
| Vitamin products:— | | |
| U.S.P. and N.F. | 4,924,220 | *3,391,618 |
| Special formulas | 13,490,346 | *10,592,884 |
| Other (not classified above, including samples, etc.) | 888,038 | ¶ |
| Medical products not classified above | ..... | 1,187,360 |
| Poultry and animal remedies (except biological products) | 9,445,191 | 8,630,150 |
| ‡Drug grinding | 6,789,819 | 7,716,721 |

* Revised.

† Includes in order of value, cosmetics, insecticides, flavoring extracts and syrups, and soap products, etc.

‡ United States Pharmacopoeia and National Formulary.

‖ Included in "medical products not classified above."

¶ Includes grinding of drugs, charcoal, herbs, gums, licorice, and other roots.

## *Foreign Trade Openings*

Correspondence in regard to any of the following trade openings should be addressed to the Bureau of Foreign and Domestic Commerce, Washington, D. C., or to any district office or cooperative office of the bureau, and not to this publication. When writing give the number of the item:—

Anilin Salt:—Cairo, Egypt; purchase (482).

Chrome Green:—Cairo, Egypt; purchase (485).

Lactic Acid:—Cairo, Egypt; purchase (485).

Potash Bichromate: — Cairo, Egypt; purchase (482).

Rubber Solution for Leather Soles:—Cairo, Egypt; purchase (485).

Soda Sulphide:—Cairo, Egypt; purchase (485).

Sulphone Oil:—Cairo, Egypt; purchase (485).

**Aniline dyes** exported from Switzerland in 1939 were valued at 106,400,000 francs compared with 83,000,000 francs in 1938.

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## Bind Bureaucracy by Law

Conferees of the two houses of Congress have before them two versions of the finally approved Logan-Walker bill for uniformity in governmental administrative procedure and full judicial review of the decrees of administrative agencies. Harmonizing of the bills' differences should not be difficult. But, there is some question whether the President will approve the measure.

Because of the disturbing of the checks and balances of Federal governmental functioning by the growth of the idea of government by commission or bureau, the Logan-Walker bill is needed as a law. But, it will not be enough. There is needed another law setting up special courts for the sole and speedy consideration and determination of actions arising from bureaucratic functions. These actions are not now handled expeditiously, and cannot be, and when the scope of judicial review has been extended this fault will be aggravated.

There is a plain and serious need for special determination of matters attendant to the relationships of government and business. A system of arbitration has been suggested. That could be and might be as efficient as special Federal courts. The agency is of secondary consideration: the need is imperative fundamentally, and there is much to be gained by the providing of a means of relief which will not be subject to the technical delays of modern judicial procedure.

There is need for still another Federal law against bureaucracy, a bureaucracy which is not official and which is becoming an actual autocracy. This is the bureaucracy at a portion of which is aimed the new Hoffman bill (H.R. 10698) "to render effective the right to work," to end the dictatorial restrictions laid on that right by organized labor. This bill goes only so far as work in connection with the national defense program. Its purpose is necessary there; its necessity in all work is already seriously clear.

No official or private regulation of individual rights should be permitted to exist outside the law. So let us have the statutory laws needed to "effect" this purpose of the constitution.

## Defense Is Paramount

Industrial management of the United States will convene with national defense largely in mind at the annual Congress of American Industry next week. It will be told of various aspects of the relationships of business policies and operations to the purpose and the progress of defense. Some of this telling will be done by those who have gone from its own ranks to the currently paramount duty and task of advising in the processes and procedures of defense planning and performance.

If articles appearing in the daily press with reference to an apparently somewhat common appraisal by business leaders of their own desires in comparison with the necessities of public defense are representative of any substantial part of business opinion in this connection, it is much to be desired that the leaders of industrial management be told in a manner which will compel understanding of what is their prime duty today. Some of them see that the nation must be maintained or their profits will vanish. A few of these recognize that they are called upon to step out of ordinary procedures and to lend a materially helpful hand to the task of maintaining the nation. Some see no more that is inordinate today than they saw two or three years ago, and still maintain that only the administration of the Federal government of this nation is out of joint.

Much is said and written to the effect that the role of the businessman in defense is still undecided. It is evident in many quarters that his participation in the defense program is indefinite and apparently gets little thought. It is to be recognized that the businessman must volunteer for his proper role even though his selective assignment must be made by governmental agents. Any process other than such a voluntary one would be of the nature of dictatorship. Yet some who condemn this most loudly are among those who clamor for an official definition of the role of business; others are so thoughtless of whether even a cast proffers a role that they invite, yes, necessitate dictation by government.

It is time that business management was told that national defense is a duty and a task, imminent and inevitable. It is time that it was told that ignorance of this situation or refusal to recognize it is nothing but plain dumbness, the consequence of which must be disaster.

—O-P-D—

## The New Chemical Show

Elsewhere in this issue is published a concise catalog of the National Chemical Exposition, the Chicago endeavor to learn by experiment whether an annual show could be successfully arranged and whether any chemical show could get enough support in that section. The catalog is ample evidence that a show could be arranged after an interval of one year from the well-established Chemical Industries Exposition in New York. What support the Chicago show will get remains to be seen. It is a meritorious exhibition.

For some years there has been a deal of opposing opinion in chemical circles on whether a chemical show should be chiefly an exhibition of materials or one of equipment. Surveys have proved nothing in the matter. The Chicago show was originally planned as an exhibition of chemicals—about three-fourths of its exhibits are of equipment. This seems to be fairly well representative of the relative interest of the two groups to the chemical industry. It is possible to learn almost everything necessary about chemical materials from printed descriptions and samples; words cannot informatively describe machinery; pictures do not adequately present equipment of any sort; these things must be seen; and that is why they have the larger exposition appeal—to the chemical industry.

When it comes to the multitude of industries which use chemicals as materials the picture is a different one; their technical men and other executives are more interested in exhibits of chemicals than they are in looking at chemical machinery, although they have the ever-the-small-boy's interest in the mechanical equipment used in their operations. The big pumpkins and the overstuffed hogs have a place in the agricultural fair—but the interest in them is largely that of competitive exhibitors, the major farmer interest is in gadgets and machines. The best place to show high-grade farm products is at a food show or some place that has something to do with eating. The best place to exhibit chemicals for their interest as industrial materials is in the shows of the various industries in which thev are used—and there. as mentioned above, they must compete with the machines of those industries.

Once upon a time all sorts of people flocked to the county fairs. Today, the few such events which remain attract largely an agricultural attendance. There are far too many things of greater interest available to people at large. Industrial shows are the same: the technicians of the glass industry, for example, have enough in their own meetings to interest them and they do not, oftentimes to their plain disadvantage, take to chemical shows. These, then, must become shows for the chemical industry. But, this is no reason why they must be chiefly exhibitions of equipment: the chemical industry is the biggest and most diversified consumer of chemical materials.

The real reason why chemical exhibits are fewer than those of equipment in chemical shows is that there is but a small number of producers of chemicals which represent the multitude of developments in the industry, and a show is too expensive a medium for the ordinary competition of the industry.

—O-P-D—

## War's Absurdities

As an economic force—a role especially allotted to it nowadays—war is as absurd as it is incompatible with any reasonable ethical doctrine. Being absurd, it produces a wondrous array of absurdities among its economic consequences.

Work is in progress in Chungking on the construction of a plant designed to produce annually 150,000 gallons of "gasoline" and about as many pounds of lubricating oils and greases from—tung oil! The United States of America has an oversupply of good petroleum gasoline and lubricants, but is trying hard to derive from petroleum, or vegetable oils, or something—a substitute for tung oil!

The war—or "incident"—to which this absurd dislocation of world economy is attributable is aimed professedly at a new world order—if any. Absurd; what?

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# Heavy Chemicals

**Carbon Tetrachloride Schedule Carried Into Next Year—Soda Phosphate and Pyrophosphate Prices Extended—Supplies of Soda Silicofluoride Continue Short**

Business continued in good volume in the market for heavy chemicals last week. While a great many of the important chemical contracts prices covering next year have been released, several other products were announced at firm levels. They included soda phosphate and pyro-phosphate, barium chloride, carbon tetrachloride and bisulphide, ammonia bifluoride and fluoride, soda bifluoride and fluoride and hydrofluoric acid. It now appeared that very few changes would develop in basic chemical prices for the early part of next year, except in a few instances where higher raw material costs have risen appreciably.

Soda silicofluoride demand continued to exceed available supplies. Domestic production was not adequate to take up the deficiency caused by the cessation of imported material. As a result sellers were hard pressed to take care of inquiries. Little material was obtainable on spot. Imports during the first six months this year amounted to 2,459,241 pounds, compared with a total of 6,672,492 pounds for the entire 1939 year. Germany, Italy, Denmark and Holland supplied most of the imports previously. Supplies from these countries have been virtually cut off in recent months. Some material was reported coming from Spain.

**Alums.**—Prices firm into early part of next year. Shipments steady.

**Alumina Sulphate.**—Business moderately active, and quotations firm.

**Ammonia Anhydrous.**—Sellers busily engaged in writing contracts for next year at firm levels.

**Ammonia, Aqua.**—Steady interest, while position of market continued strong.

**Ammonia Bicarbonate.**—Transactions routine. Prices well maintained.

**Ammonia Bifluoride.**—Prices carried into early part of 1941 at current levels. Business fair.

**Ammonia Nitrate.**—Market position firm, and inquiries steady.

**Ammonia Perchlorate.**—Stocks about depleted, and prices withdrawn.

**Ammonia Persulphate.**—Modest quantities made up the call. Prices rule firm.

**Ammonia Silicofluoride.**—Steady to firm price tone, with takings moderate.

**Ammonia Sulphocyanide.**—Prices continued firm, while demand was spotty.

**Ammoniac, Sal.**—Buying steady. Price rule unchanged and firm.

**Antimony Metal.**—Small lots continued to make up the call. Domestic spot price unaltered.

**Antimony Oxide.**—Tone of market about steady, prices unchanged. Business irregular.

**Arsenic.**—Routine interest for white with prices well sustained.

**Barium Carbonate.**—No new price developments, while trading was moderate.

**Barium Chlorate.**—Spot stocks negligible, and prices strictly nominal.

**Barium Chloride.**—A leading seller extended current prices into early part of next year. Withdrawals moderate.

**Barium Hydrate.**—The call was spotty, while prices held firm.

**Barium Nitrate.**—Business steady. Pricewise a firm tone prevailed.

**Bleaching Powder.**—Commitments routine. No change in the price.

**Calcium Acetate.**—Fair interest. Prices unchanged and firm.

**Calcium Chloride.**—Colder weather stimulated demand for ice control work. Prices remain the same.

**Carbon Bisulphide.**—Current prices extended into the next year. Shipments steady against contracts.

**Carbon Tetrachloride.**—Prices carried into 1941 at firm levels, subject to quarterly revision. Demand steady.

**Chlorine.**—Sellers writing contracts at firm levels for next year. Shipments continued active.

**Chloropicrin.**—Market position firm, and prices unaltered. Fair inquiry.

**Cobalt Oxide.**—Stocks limited and offerings restricted to regular trade.

**Price Changes**

**Advanced**
None

**Reduced**
None

**Comparative Values**

Index numbers compiled from twenty-five typical chemicals on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 156.8 | 156.8 | 155.9 | 149.4 |

Index numbers compiled from twenty typical acids on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 101.6 | 101.6 | 101.6 | 99.0 |

Market news that may have developed after this report was sent to press will be found on page 4.

**Copper.**—Producers adhere to 12c. a pound. Outside and customer smelters market quiet, prices ranging from 12⅛c. to 12¼c. Some export business at 10c., f.a.s., with 11c. quoted in other quarters.

**Copper Salts.**—Steady to firm price tone, with trading moderately active.

**Copper Sulphate.**—Shipments good. Prices unchanged and firm.

**Copperas.**—Market position tight, and offerings usually limited. Prices firm.

**Fluorspar.**—Prices more stabilized, and shipments moderately active.

**Glauber's Salt.**—Market position firm. Steady interest.

**Lead Acetate.**—Transactions routine. Prices remain unchanged.

**Lime.**—No new price developments, while the call was steady.

**Magnesite.**—Market continued to hold its firm position, with offerings restricted.

**Manganese Dioxide.**—Selling restricted to regular contract accounts as a rule. Prices firm.

**Molybdenum Metal Powder.**—Buying steady and prices display firmness.

**Nickel Salts.**—Business moved at a good pace, while prices were firm.

**Phosphorus.**—Market position continued strong, and selling limited to regular channels.

**Potash Carbonate.**—Shipments moved steadily against contracts. Good export inquiry. Prices firm.

**Potash, Caustic.**—Consumers made steady replacements. Quotations were well sustained.

**Potash Chlorate.**—Conditions were unchanged, with sellers limiting business to regular consumers. Prices firm.

**Potash Perchlorate.**—Market firm, and sellers supplying regular consumers only.

**Potash Permanganate.**—Moderate activity, with prices well maintained.

**Current prices on heavy chemicals are given in the alphabetical list of prices beginning on page 7**

**Salt.**—Shipments moderately active. Prices unchanged and firm.

**Saltcake.**—Prices remain nominal, with the call from paper and glass trade steady.

**Saltpeter.**—Demand spotty. No change disclosed in the quotations.

**Soda Acetate.**—As announced late preceding period, prices will be carried into early part of next year at firm levels. Demand routine.

**Soda Ash.**—Basic consumers supplied a good interest against contracts. Normal export inquiry, and prices without change.

**Soda Bicarbonate.** — Withdarwals routine. Prices steady to firm.

**Soda Bifluoride.**—Prices carried into next year at firm levels. Fair interest.

**Soda Bisulphite.**—No further price developments, with tone firm. Moderate demand.

**Soda Caustic.** — Transactions remained steady from various consuming industries. Prices continued the same.

**Soda Chlorate.**—Sellers continued to supply regular consumers for normal needs. Prices rule firm.

**Soda Cyanide.**—Good demand. Prices firm and unchanged.

**Soda Fluoride.**—Quotations carried into 1941 at firm levels. Trading fair.

**Soda Hydrosulphite.** — Steady to firm price tone, with purchases moderate.

**Soda Nitrite.**—Buying held at favorable levels, and prices well sustained.

**Soda Phosphate.**—Prices on various grades were extended into early part of 1941 at current levels. Business moderately active.

**Soda Pyrophosphate.** — Prices will remain firm for first quarter of 1941. Shipments steady.

**Soda Silicate.**—Tone of market firm. Withdarwals held up well.

**Soda Silicofluoride.** — Market position tight, selling limited.

**Soda Stannate.**—Moderate demand. Prices unchanged from previous period.

**Soda Sulphite.** — Business steady. Pricewise a firm tone predominated.

**Strontium Salts.**—Stocks limited, and selling restricted.

**Sulphur, Refined.**—Demand irregular. A firm price tone prevailed.

**Tin Salts.**—Various tin salts remained at the levels established preceding period. Straits metal held around 50¾c. per pound.

**Zinc Chloride.** — Prices unchanged and firm. Shipments moderate against contracts.

## Acids

A firm price tone continued to characterize the trading in the market for mineral acids last week. Buying was steady against contracts in practically all materials. Sellers received some export inquiries, but were reluctant in many instances to make shipments in view of the domestic needs. Prices will remain firm for hydrofluoric acid for the early part of 1941. Contract announcements on other leading acids have been announced with the exception of acetic and oxalic.

**Acetic.** — Market displayed firmer tone. Shipments moved fairly steady.

**Battery.**—Interest routine, and prices well retained.

**Chromic.** — Withdrawals moderately active. Prices firm.

**Formic.**—Market firm, and buying proceeded steadily.

**Gallic.**—Small lots made up the call. Quotations rule firm.

**Hydrofluoric.**—Prices will remain firm into early part of 1941. Fair interest.

**Latic.** — Transactions irregular, Pricewise a firm tone prevailed.

**Muriatic.** — Steady demand. Prices continued firm.

**Nitric.**—Prices firm and unchanged. Buying was steady.

**Oxalic.** — Selling continued limited to regular channels. Prices firm.

**Phosphoric.**—Steady to firm price tone. Routine demand.

**Sulphuric.** — Basic consuming industries made satisfactory replacements, to keep market in firm position. Sellers were writing contracts for 1941 at current levels.

**Baltimore, Nov. 27.**—Conditions in the market for sulphuric acid continue unchanged, with the buyers still disposed to hold off about entering into new contracts and with the sellers equally reluctant to take on commitments at the prevailing nominal basis. As contracts are usually made to cover a year, the users of acid will be forced shortly into concluding new ones.

## Insecticides

There was nothing new to disclose in the prices for various agricultural insecticides and fungicides last week. The firmer tone noted in lead arsenate continued in evidence, and some sellers were naming higher prices. Activity in this section was negligible, however, some business materialized in the South and Southwest. Export inquiries reached the market in satisfactory volume.

**Calcium Arsenate.**—Prices continued firm. New business light.

**Lead Arsenate.**—Market lacked any further price developments, but the tone displayed firmness. Not much activity.

**Paris Green.**—Trading without feature. Prices firm and unchanged.

## National Carbon Names Spangler Vice-President

John M. Spangler, general salesmanager of the National Carbon Company, this city, has been made a vice-president of the company. Mr. Spangler joined the company in 1915. He became manager of the railroad department five years later and in 1923 was made head of the Western sales division, with headquarters in Chicago. He became successively manager of the Eastern division of National Carbon Company, with offices in New York, and assistant general sales manager. He was general sales manager five years ago.

## *Sabotage Vigilance Urged on Contractors*

*—Continued from page 3*

tage in many plants, often attributable to disgruntled employees rather than to an international plot. Fires, explosions, and industrial accidents in shipyards, chemical factories, and other plants working on defense orders are no more numerous currently than in other recent years, and are of a type which is to be expected under normal conditions unless extreme caution is taken to follow all possible safety rules.

The special task of the F.B.I. investigators is to educate plant managers to be on guard against sabotage and espionage, since American business men are not accustomed to guarding their premises and operations with such possibilities in view. In a great many cases the agents have found that confidential blueprints, formulas, and important documents, parts, tools, and working models are not properly protected from fire or theft, or that unauthorized persons may obtain access to them easily. Espionage is not a new problem, and for years the Federal Bureau of Investigation has maintained a file of data on known spies of varying degrees of potential harmfulness. Manufacturers are being urged to report to regional F. B. I. offices any instances of suspicious actions on the part of employees, former employees, or visitors to their plants.

The officials point out that the major part of spying does not concern military secrets, but industrial, commercial, and financial information, particularly new machinery or methods of production which could be used by other countries in improving their production of both military and nonmilitary goods. Defense contractors and other plant managers requesting advice are given assistance in organizing guard forces, checking on employee activities, protecting vital parts of the plant, and taking other precautions to avoid accidents, espionage, and sabotage.

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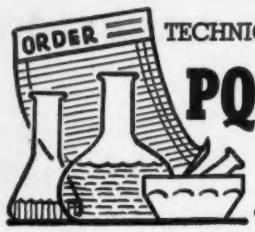


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# National Chemical Exposition Exhibitors

## Stevens Hotel, Chicago, Ill.

### December 11 to 15, 1940

**American Foundry Equipment Co.**

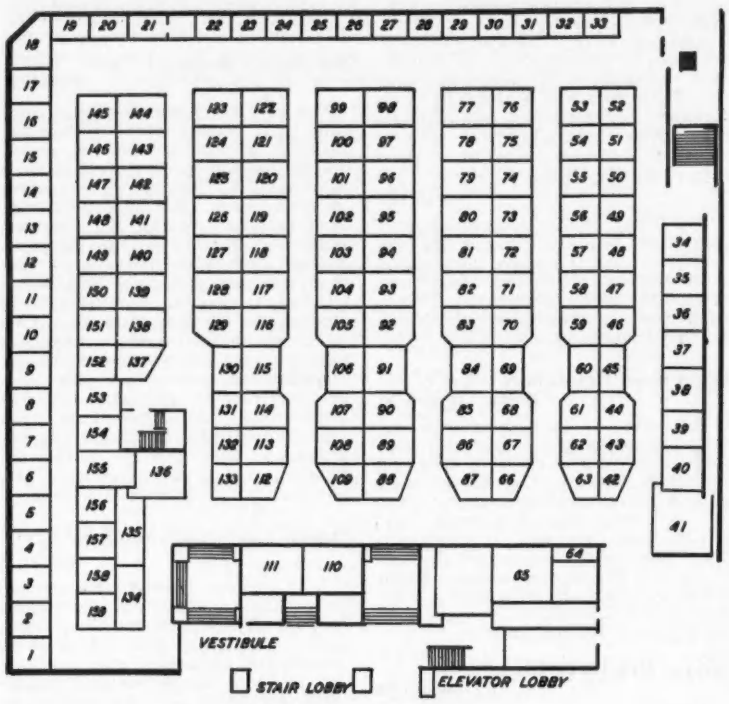
**Booth 34**

Dust collecting equipment of various types, including a "Dustube" cloth bag type dust arrestor, a Cyclone dust arrestor, and a newly designed wet disposal unit which makes a sludge of dust discharged from dry dust collectors, will be shown at this booth. In attendance at the exhibit will be E. A. Rich, Chicago district salesmanager; E. B. Rich, of Chicago; C. A. Snyder, dust collector engineer; A. E. Lenhard, advertising manager, and J. M. Adle, of the sales staff.

**American Hard Rubber Co.**

**Booth 84**

Specimens of "Ace" hard rubber and rubber-lined pumps, pipe, fittings, utensils, valves, and tanks will be displayed in this space. Molded parts and samples of neoprene, and thiokol lined steel will also be shown. Representatives present will be S. J. Smith and J. N. MacLaren, of New York; R. J. Kittner, of Akron; and George Evans and George Reed, of Chicago.




**Floor Plan of Exhibits**

**American Instrument Co.**

**Booth 102**

A variety of laboratory equipment, running from absorption cells to wedge photometers will be exhibited in this area. Some units will be in operation.

**Anderson-Prichard Oil Corp.**

**Booth 96**

Two petroleum solvent products as used in paint manufacturing and industrial finishing will be featured in this booth. The materials to be exhibited are "Apcothinner," in a dipping enamel; and "Apco" 125, in a brushing enamel. The display is planned to show the difference in results produced merely by a change in the type of petroleum solvent used. Company representatives who will be present at the display are: C. H. Dresser, director in charge of industrial naphtha sales; B. I. Scoggin, manager of research and development; H. E. Easterday, Eastern division manager; D. D. Rubek, head of the Chicago research division; R. E. Johnson, head of technical service, and J. Loeffler, president of the Commerce Petroleum Company, Chicago.

**Armour & Co.**

**Booth 86**

The central theme of the Armour display will be a section of a fatty acid still. It will symbolize the close-cut fractionation processes employed in the Armour plant in the large scale production of pure fatty acids. The booth designed around the still-section will be devoted to a display of new uses for such acids and fatty acid derivatives. Among the derivatives will be varieties of amines, nitriles, acid chlorides, and mixed aliphatic aromatic and aliphatic ketones. In charge of the fatty acid display will be E. W. Freundt and Dale Stingley. In charge of the fatty acid derivative portion will be D. J. Purcell.

**Atlas Powder Co.**

**Booths 73 and 74**

The Atlas Powder Company will display numerous new applications of industrial chemicals, particularly those of the hexahydric polyalcohols, mannitol and sorbitol, and their derivatives, as used in cosmetics, insecticides, and flexible glues. Reference will also be made to new materials which find application in industrial finishes, and to the use of hexanitromannite in detonators. The Darco Corporation, whose products will also be displayed in these booths, will show applications of activated carbons in several fields of chemical industry.

**Bareco Oil Co.**

**Booth 51**

In this booth will be shown the "Barnsdall" special waxes. These materials are high melting point, microcrystalline petroleum waxes manufactured from Mid-continent crudes. They are produced in two melting points, 160/165°F. and 180/185°F., and will be displayed in three colors: black, amber, and white. A collection of micro-photographs of mineral, vegetable, and animal waxes, which should prove interesting to chemists, will also be shown. Literature describing the waxes will be available at the booth from B. H. Clary and J. W. McKenna, of the Bareco wholesale department; and F. S. Horne, superintendent of the wax refinery.

**Barnstead Still & Sterilizer Co.**

**Booth 67**

Modern types of water distilling equipment will be displayed here. Included in the exhibit will be an extra-duty model designed especially for the hard water conditions often found in the Mid-West. In these extra-duty models the rate of scale formation is held to a minimum and special easy-cleaning features provided. Steam, gas, and electrically heated stills may be seen at the display. A. White and D. Miller will be in attendance throughout the exposition.

**Barrett-Cravens Co.**

**Booth 39**

The Barrett-Cravens Company will exhibit several pieces of handling equipment in its space. Included will be a portable elevator, a lift truck and skid, a floor truck, a carboy truck, and a carboy pourer. All of the units exhibited have found wide application in the chemical processing industries.

**Brabender Corp.**

**Booth 52**

A "Plastograph," recording plastometer for weighing and recording the consistency of plastic or viscous substances, from syrups to vulcanized rubber; a moisture tester, which is a combination of a drying oven and analytical balance, showing moisture loss directly in percentages; and a "Viscograph," recording viscosimeter which graphically records a combination of temperature and viscosity curve, will be displayed in this booth. Arthur Hartkopf will be in charge of the display.

**Buffalo Foundry & Machine Co.**

**Booth 81**

A pictorial exhibit of the large processing units made by the Buffalo organization will be set up in this booth. Space precludes exhibition of actual units. Featured will be large photographs of the latest type of evaporators developed by the company. Included are those which have been designed for handling salt-forming solutions, and are equipped with continuous filters to remove salt crystals. Their use is said to make possible the use of multiple effect evaporators without danger of clogging, and thus provide savings in both steam and cooling water. Other large photographs will depict the new "Buflovak" double drum dryers, in both atmospheric and vacuum types, processing and reaction kettles, nitrators, and sulphonators.

**Central Scientific Co.**

**Booth 114**

A variety of recently developed laboratory apparatus will be displayed in this booth. Included will be a spectrophototelometer, a grating spectrograph, variable speed motor stirrers, sieve shakers, cylindrical chamber ovens, and pressure and vacuum pumps.

**Coleman Electric Co.**

**Booth 135**

Several new instruments for use in analysis will be shown by the Cole-

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BOOTH 81

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STEVENS HOTEL
DECEMBER 11-16, 1940

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man Electric Company. Among them are a new double monochromator spectrophotometer, a new universal spectrophotometer, an economical student titrator, a research titrator, and a new dropping mercury electrode.

### Commercial Solvents Corp.

**Booth 113**

An interesting group of organic chemicals, including four nitroparaffins and twelve nitroparaffin derivatives will be exhibited by the Commercial Solvents Corporation. The nitroparaffins are nitromethane, nitroethane, 1-nitropropane, and 2-nitropropane. The derivatives include five nitrohydroxy compounds, five aminohydroxy compounds, and two salts of hydroxylamine. The nitroparaffins have already found many applications in industry as solvents and because of their chemical reactive possibilities. The nitrohydroxy and aminohydroxy compounds have also produced a variety of new chemicals. Among them are the common higher fatty acid soaps of the aminohydroxy compounds, which are proving excellent emulsifying agents for oils, fats, and waxes.

### Container Co.

**Booths 139 and 140**

Fiber drums suitable for both domestic and export shipments will comprise this display. Featuring strength, combined with light weight, these containers have found application for the shipment and storage of a wide range of dry chemical products. Units having special linings and treatment so as to provide special protection of the contents against air and moisture will also be shown.

### Corn Products Refining Co.

**Booth 132**

Samples of the large number of corn products developed by the Corn Products Refining Company research staff will be made available for inspection and discussion in this exhibit. A large chart, forming the background of the display, will illustrate the breakdown of corn into its various constituents, and show the relationship of protein, starch, and dextrose derivatives. Members of the research department, including various group leaders, will be in attendance at the booth. Among others there will be present: S. M. Cantor, R. W. Kerr, L. C. Smallen, J. P. Bishop, and R. C. Gralow.

### Corning Glass Works

**Booth 108**

Shown in this booth will be a new line of laboratory ware, known as "Vycor." Exceptional chemical stability, high softening point, and very low thermal expansion are said to be outstanding qualities of the new material. Also shown will be a new division of the "Pyrex" line, fritted glassware. A number of new items recently added to the regular "Pyrex" line, such as watch glasses, flowmeters, manometers, and pipettes, will also be displayed.

### Cuno Engineering Corp.

**Booths 53 and 54**

The complete line of Cuno continuously cleanable filters employed in the processing of chemicals, water, protective coatings, petroleum products, and other materials will be exhibited in this space. D. H. Van Vleck, sales engineer at the Meriden office of the company will be in charge of the booth. H. M. Munday, R. M. Booth, and J. N. Fauver, of the Cuno district offices will also be present.

### J. H. Day Co.

**Booth 68**

Laboratory size machines, demonstrating the principles employed in the larger units of the Day company, will be displayed in this space. The machines shown will include a sifter and mixer, for blending dry materials; a pony or change can mixer, for liquids and pastes; a Cincinnatus double arm mixer; a giant type kneader and mixer; and a three-roll mill; for grinding paints, inks, and similar materials. Company representatives in charge of the booth include E. E. Strong, of Cincinnati, and R. F. Cone and A. W. Lockart, of the Chicago office.

### F. M. de Beers & Associates

**Booth 69**

Displayed in this booth will be layouts of plants using the equipment handled by the de Beers organization, which acts as representative of several well-known machinery manufacturers.

### Denver Equipment Co.

**Booth 85**

Several models of machinery, including a Denver hydroclassifier, for fine-sizing and desliming problems; a spiral rake thickener; an adjustable stroke diaphragm pump; and a ball mill, will be on display in this booth. A flotation cell, used in the beneficiation of minerals, will be in operation. A Denver wet reagent feeder, and mineral jigs will also be shown.

### Dicalite Co.

**Booth 1**

This exhibit will highlight the performance of Dicalite filteraids in the clarification and filtration of industrial products. The many uses of the modern Dicalite mineral fillers for industrial requirements will also be reviewed.

### Dorr Co.

**Booths 129 and 130**

Working models of new items in the Dorr line of continuous chemical processing equipment many be seen at this booth. Among such apparatus will be a new classifier, a new single-compartment thickener, a "Dorrco" V-type pump, a slaker, and a clariflocculator.


**W. A. HAMMOND DRIERITE CO.**

**YELLOW SPRINGS, OHIO**

**SEE OUR EXHIBIT — Booth No. 3**
**at the**
**NATIONAL CHEMICAL EXPOSITION**

**FEATURING**

**Our line of Standard Package Units of Drierite.**

**Flosdorf-Mudd Cryochem Apparatus for the Dehydration of Serums from the frozen state.**

**Typical Telephone Cable Splice dried with Drierite**

**Other Drying Specialties.**


### Dow Chemical Co.

**Booths 105, 106, 115, and 116**

Samples of the extensive line of industrial and fine chemicals which the Dow Chemical Company manufactures for the chemical processing, pharmaceutical and related industries will be on display in this booth. A new development to be featured is "Saran," a thermoplastic vinylidene chloride resin, which is available in extruded form. The new resin is said to possess extraordinary toughness and strength, and be extremely resistant to chemical attack. Other interesting new products to be shown are the "Ethomelts" and "Ethofoil." The former is a plasticized ethyl cellulose; the latter is ethyl cellulose in transparent sheeting form. Other materials to be shown, in addition to the complete assortment of chemicals include ethyl and methyl esters of cellulose, styrene resins, magnesium alloys for varied industrial applications, fungicides and insecticides, and heat transfer media.

### Fansteel Metallurgical Corp.

**Booths 88 and 89**

Acid proof plant equipment fabricated from tantalum will be exhibited in this space. Other Fansteel rare metal products of tantalum, tungsten, molybdenum and their alloys also will be displayed. Of special interest will be a complete acid-proof reaction unit, consisting of a kettle heated by a tantalum bayonet heater, surmounted by a tantalum reflux condenser. The exhibit will be manned by F. L. Hunter, chief engineer of the tantalum division, J. H. Harper, I. R. McCall, L. R. Scribner, sales engineers, and Allan L. Percy, advertising manager.

### Filter Media Corp.

**Booth 101**

The Filter Media Corporation will exhibit for the first time at the exposition a new "Freeflow" filter plate. They are also displaying rubber and glass filter media, which have found application in industry where chemical corrosion is a serious factor.

### Glycerine Producers' Ass'n

**Booths 58 and 59**

The story of how glycerin is obtained from natural sources is strikingly told by this display. Carrying the story forward, the display then depicts, using three-dimensional compositions with miniature figures, the twenty-four major fields in which glycerin now plays an important role. Numerous commercial packaged products in which glycerin plays a part, and a representative collection of alkyd resins are also displayed.

### Glyco Products Co.

**Booth 57**

Over one hundred polyhydric alcohol esters, comprising the esters of glycerin, ethylene glycol, diethylene glycol, polymerized glycol, sorbitol, mannitol, "Carbitol," and "Cellosolve," will be seen at this booth. Many are being shown publicly for the first time by the Glyco company. A special bulletin presenting complete technical data on the new compounds will be available. In addition to the interesting new products, a new synthetic emulsifying agent, "Emulgor," will be displayed, as will the complete line of synthetic waxes, resins, emulsifying agents, flameproofing and waterproofing agents, preservatives, foam producers, and foam reducers manufactured by the company. E. Rosendahl, vice-president of the company; C. A. Crowley, G. H. Goodyear, Edwin S. Johnston, B. G. Spice, J. B. Mullen, and Frank Lindberg will be present at the exhibit.

### B.F. Gump Co.

**Booth 109**

On display at the Gump exhibit will be a "Vibrox" barrel packer, a Draver volume percentage feeder, a Bar-Nun "Auto-Check" weigher, and a Bar-Nun rotary sifter. The Chicago salesforce of the Gump organization, W. W. Grieb, A. C. Turner, E. G. Berry, Mr. Alsted, and Mr. Nyman, will be present at the exposition.

### Graver Tank & Manufacturing Co.

**Booth 49**

The Graver upward sludge filtration clarifier, various units of water treating equipment, and tanks of all types for the chemical industry will be shown at this booth.

### Great Western Manufacturing Co.

**Booth 142**

Specimens of the Combs gyratory sieving machines, for the sifting and screening of dry, liquid, and semi-liquid materials of all types are on display in this space. The Combs unit steps up screening process by a gyratory, vibrating motion without the application of pressure.

### W.A. Hammond Drierite Co.

**Booth 3**

Featured at this exhibit will be an assortment of the various forms of "Drierite," granular and moulded; regular, indicating, and "DuCal." Shown will be the various standard packages in which it is available to laboratories, the refrigeration industry, the telephone industry, and the general chemical and engineering industries. Another important part of the display will be the showing of a unit of the Flosdorf-Mudd Cryochem apparatus. Other portions of the exhibit will depict a typical piece of telephone cable with the splice in the process of being dried with "Drierite," and various forms of dehydrators charged with "Drierite" as supplied to the refrigeration industry, and various specialties manufactured by the company.

### Harshaw Chemical Co.

**Booth 41**

The exhibit of the Harshaw company will consist of a modernistic background with illuminated reproductions of the spectrograms of various metals used in the manufacture of its products. At the end of each band will be displayed the products made from that metal. In the foreground will be displayed new Harshaw products and some of their interesting materials. Among the new products to be exhibited are: Activated aluminum oxide, anhydrous hydrogen chloride, chromium oleate, naphthenated copper hydroxide, copper oxychloride sulphate, hydrated cupric oxide, nickel fluoborate, basic and neutral tin naphthenate, anhydrous hydrogen fluoride, boron trifluoride, and a white opacifier for porcelain enamels, "Uverite 20-H."

### Hasco Valve and Machine Co.

**Booth 66**

A number of interesting specimens of stainless steel valves and fittings will be displayed by the Hasco company. The valves and fittings to be shown are especially made to meet the exacting requirements of paper mills and chemical plants. Also shown will be several "hydro-heaters," for heating water or other liquids by direct contact with steam under controlled conditions.

### Haveg Corporation

**Booth 62**

Haveg floor covering, a new development, will be displayed in this exhibit. Designed for covering existing floors to protect them from corrosion, it is resistant to acids and alkalies, and is tough and strong. It is supplied in standard sheets one-fourth inch thick and two and one-half by five inches in size, to be cemented to the existing floor with a cold-setting cement having the same resistant properties of the covering itself.

### Heil & Co.

**Booth 133**

A display of linings which are resistant to acid corrosion, for tanks and kettles has been arranged by Heil & Co. Lead, plastics and nickel are among the materials used by the organization for lining processing equipment.

### Hercules Powder Co.

**Booths 93 and 94**

An assortment of the diversified chemicals and related materials manufactured by the Hercules Powder Company will be on display in this booth. Products shown will include:—Rosins, pine oils, terpene solvents, resins, cellulose acetate, ethyl cellulosein, chlorinated rubber, textile and paper chemicals, and sev-

eral new ingredients for paints, varnishes, and lacquers. Some of the products in the display are recent developments of the Hercules organization.

### Illinois Testing Laboratories, Inc.

**Booth 29**

A complete line of the portable and indicating, single and multi-point pyrometers, temperature controllers, distance thermometer, instantaneous direct reading air velocity meter, a new "Alnor" pyrocon, and a new undeflecting potentiometer type temperature controller. Representatives who will be in attendance at the booth will be D. L. Humm, W. J. Bailey, W. G. Buck, and M. D. Pugh.

### Ingersoll Steel & Disc Div., Borg-Warner Corp.

**Booth 126**

Shown in this booth for the first time will be nickel clad sheets as produced by the Ingersoll cast-in-ingot-process. Also exhibited will be "IngAclad" stainless clad steel, depicting various fabricated equipment, such as laboratory tables and sinks, shipping containers, welded articles, and sections of tanks. Enlarged photographs will show "IngAclad" installations in the chemical, paper, paint and varnish, textile, and other processing industries. New literature, including a manual of welding and fabricating procedures, a convenient estimating sheet, and a revised price list will be available at the booth.

### International Filter Co.

**Booth 98**

The center of attraction in this booth will be two large animated diagrams. One will show the circulation system of International's Accelator" water conditioning plant; the other unit uses colored traveling lights and illustrates how zeolite selective water treating plants function. In addition several tall columns of silica gel, internally illuminated with fluorescent lamps, will be on display. New literature, specially prepared for the exposition, will be available.

### Johns Manville Corp.

**Booth 75**

The use of "Celite" filteraids for the clarification of chemicals, oils, sugars, varnishes, and juices, will be shown in this display. The microscopic size, poroscity, and inert properties of these diatomaceous earths will be stressed in the exhibit. Also included in the display will be the "Celite" mineral fillers, prepared from especially pure forms of diatomaceous silica. They are distinguished by their large bulk per unit weight. The display will indicate the "Celite" fillers which can be supplied to meet almost every industrial need. Representatives present at the exhibit will include Arthur Elsenblast, vice-president; W. D. Van Arnam, D. C. Morris, H. N. Haberstroh, C. J. O'Neil, T. A. Ludlow, P. A. Martinson, D. J. Kelley, and Carl Dietz.

### Kent Machine Works

**Booth 27**

An entirely new three-roll mill and a change can mixer will be displayed by the Kent Machine Works. Both units are streamlined and said to incorporate many new advantages in this type of machinery. The mill uses a new method of regulating the feed guides, apron control, and the quick release of rolls. The mixer has double action blades, revolving can, and an enclosing arrangement for the can and all driving mechanism. Both units have been designed so as to make them exceptionally easy to keep clean. Elmer Peters, vice-president, will be present at the exhibit.

### Kewaunee Manufacturing Co.

**Booths 4 and 5**

A laboratory table embracing the newest type of metal furniture construction will be displayed in this space. The table will have a new type top, of a material called "Kemweld," which is not affected by the strongest acids and alkalies used in laboratory work, it is said. Also shown will be a new plumbing fixture, called "Kembronze," and an improved "Karcite" sink of molded material. Representatives at the booth will be J. A. Campbell, C. E. Shomo, and E. A. Moudry.

### Kimble Glass Co.

**Booth 97**

An exhibit of the full line of biological, chemical, and metallurgical glassware manufactured by the Kimble Glass Company has been prepared in this space. The assortment will include specimens of calibrated and uncalibrated vials, containers, measuring apparatus, tubing, rods, and other laboratory glassware.

### Koppers Co., Tar and Chemical Div.

**Booths 117 and 118**

Black light will be employed to display the fluorescent qualities of some of the thirty chemicals to be featured in the Koppers Company exhibit. The chemicals will be shown in large bottles, with those responding to the illumination of black light being shown through "peep holes" in the booth. A giant book, with turning pages, will carry information concerning chemical coal products. Literature will be available discussing the characteristics and uses of such materials. Among the chemicals, some of which have been produced only recently on a commercial basis, are:—Ammonium thiocyanate; 3:5-xylenol; pyridine; alphamethylnaphthalene; flotation sulfur; 4-tert-butylmetacresol; alphapicoline; betamethylnaphthalene; phenol; 4:6-di-tert-butylmetacresol; quinoline; acenaphthene; orthocresol; diphenylene oxide; carbazole; anthracene; metacresol; benzene; dicyclopentadiene; phenanthrene; paracresol; toluene; naphthalene; and fluorene.

### Linings, Inc.

**Booth 44**

An assortment of coatings having resistance to acids, alkalies, corrosion, and abrasion will be shown in this booth. The materials to be exhibited, in addition to their resistant properties, are said to be valuable in chemical plants because of their non-toxic characteristics.

### Loeb Equipment Supply Co.

**Booth 25**

A full line of apparatus, including portable electric mixers, filters, glass-lined tanks, and bottle filling machinery, as manufactured by the Alsop Engineering Corporation, whom the Loeb organization represents. will be displayed at this booth. The Loeb company will also exhibit its own line of chemical equipment. The booth will be in charge of A. R. Zieske and Joseph Loeb.

### Marathon Paper Mills Co.

**Booth 22**

Products which the Marathon organization is now making from lignin, the non-cellulose portion of wood, will be on display in this space. These materials include vanillin, dispersing agents, tanning materials, and plastics. Another portion of the exhibit will be devoted to a film material finding extensive use in packaging. George W. Forcey and Henry Anderson will represent the company at the booth.

### H. S. Martin & Co.

**Booth 70**

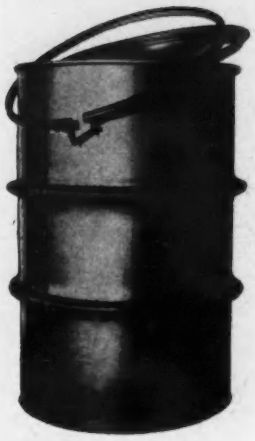
A display of apparatus comprising standard taper ground glass joints, showing their versatility in fitting together various pieces of laboratory equipment will be set up in this booth. In addition the display will show the new semi-ball joints, which form connections free from sticking or freezing tendencies.

### Martindale Electric Co.

**Booth 112**

A Martindale mechanical metal-marker and a Martindale protective mask will be displayed in this space. The demonstration of the metal-marker will be chiefly on glass, as used in the chemical laboratory. The protective mask affords protection from the dust of chemicals which are not toxic or too high in silica content. The company's electrical etchers may also be shown.


DRUMS TO KEEP THE PEACE



NATIONAL DEFENSE?

SURELY WE ARE DOING OUR PART—with fifteen to twenty competitors bidding for each contract we have been *low bidder* on three of the last five defense drum contracts on which we have quoted (receiving the awards, of course). On the other two we were the *second low bidder*.

But defense work is only part of our business, *our domestic trade has increased 40% over 1939.*

We believe the main reason for this record lies in the fact that rush shipments still leave our plants on an average of three days after receipt of order. This despite the tremendous increase in business. Then too, our usual high standards of quality are continuously maintained and improved.

▼

PITTSBURGH STEEL DRUM CO.

*Plants:* Butler, Pa.; Garwood, N. J.

# FOREMOST

**Discoveries and advances in the vitamin field made by Merck Chemists and their collaborators have continually emphasized the outstanding rôle played by Merck & Co. Inc. in the development of this therapeutically important line.**

**The following historical review of recent advances in the vitamin field dramatically portrays the contributions of Merck & Co. Inc. in making available many of these essential factors in pure form:**

**1934** *Ascorbic Acid Merck (U.S.P.) was made available by Merck & Co. Inc.*

**1936** *Vitamin $B_1$ was synthesized in the Merck Research Laboratories.*

**1937** *Vitamin $B_1$ Crystals Merck (Thiamine Hydrochloride U.S.P.) was made available in commercial quantities.*

**1938** *Nicotinic Acid Merck (U.S.P.) became commercially available.*

**1938** *Riboflavin Merck was the second pure crystalline vitamin to reach commercial production during that year.*

**1938** *Alpha-Tocopherol (Vitamin E) was identified and synthesized by Merck chemists and their collaborators in other laboratories.*

**1939** *Vitamin $B_6$ was synthesized in the Merck Research Laboratories.*

**1940** *Vitamin $B_6$ Hydrochloride Merck became available in commercial quantities.*

**1940** *Alpha-Tocopherol Merck (Vitamin E) was made commercially available.*

**1940** *2-Methyl-Naphthoquinone Merck, a pure chemical having marked Vitamin K activity, became available in commercial quantities.*

**1940** *Pantothenic Acid, the most recently synthesized member of the Vitamin B Complex, was identified and synthesized by Merck chemists and their collaborators.*

**1940** *Calcium Pantothenate Dextrorotatory (d-Calcium Pantothenate), the physiologically active form of Pantothenic Acid, was made commercially available by Merck & Co. Inc.*

# IN THE SYNTHESIS AND PRODUCTION OF PURE VITAMINS

With vitamins commercially available as pure substances, it is now possible for the pharmaceutical manufacturer to formulate desirable vitamin combinations with consummate ease. By using these pure chemicals of known and uniform potency, the manufacturer can readily adjust the proportions of the individual vitamins to the particular requirements of his own products.

Through institutional advertising in leading medical journals, exhibits at important medical meetings, and by the distribution of factual and up-to-date descriptive literature, Merck & Co. Inc. is constantly bringing the uses and advantages of vitamins to the attention of the medical profession for the benefit of pharmaceutical manufacturers who make dependable vitamin preparations. *The Merck technical staff and laboratories are prepared to serve customers in manufacturing problems involving pure vitamins. We invite you to write us.*

**MERCK & CO. Inc.** *Manufacturing Chemists* **RAHWAY, N. J.**

NEW YORK · PHILADELPHIA · ST. LOUIS · *In Canada:* MERCK & CO. Ltd., MONTREAL AND TORONTO

**MERCK VITAMIN PRODUCTS**

**Vitamin $B_1$ Crystals Merck**
(Thiamine Hydrochloride U. S. P.)
**Ascorbic Acid Merck** (U. S. P.)
**Riboflavin Merck**
**Nicotinic Acid Merck** (U. S. P.)
**Nicotinamide Merck**
**Vitamin $B_6$ Hydrochloride Merck**
(Pyridoxine Hydrochloride)
**d-Calcium Pantothenate Merck**
**2-Methyl-Naphthoquinone Merck**
(Vitamin K Active)
**Alpha-Tocopherol Merck**
(Vitamin E)

### Merck & Co.

**Booths 123 to 125**

The contributions of chemistry to national defense is the keynote of the display at the Merck booth. The central panel of the booth, highlighted by an enlarged reproduction of crystals of vitamin $B_1$ illuminated by cross-polarized light, is devoted to a display of vitamins of the B complex, in which the company has pioneered. The role of pharmaceutical chemistry in national defense through service to medicine and pharmacy is pictured by displays of U.S.P. and N.F. products and by a presentation of chemotherapeutic agents, including the sulfonamide group and the newer arsenicals. Other panels of the display are devoted to a presentation of industrial chemicals of use in key industries and to fine reagent chemicals of fundamental value in the testing and control of products finding their way into material essential for national defense. C. R. Addinall will be in charge of the exhibit.

### Merco Nordstrom Valve Co.

**Booth 111**

In its display of representative Nordstrom lubricated plug valves, the Merco company will feature a valve with internal parts "Merchrome" treated. This is a new development in hard facing which permits the application of lubricated plug valves on services having temperatures as high as 900 degrees Fahrenheit. The Pittsburgh Equitable Meter Company, will also display in this booth a complete line of liquid and gas meters, and gas pressure regulators.

### Miner Laboratories

**Booth 60**

This consultant organization, which is affiliated with the Glycerin Producers Association, will tie in its display with that of the association. Booth description appears under name of association.

### National Carbon Co.

**Booth 38**

A comprehensive display of carbon, graphite, and "Karbate" products of interest to the process industries has been prepared for this space. In addition the company will demonstrate the "National" accelerated fading unit, for accelerated testing of textiles, dyes, paints, and other colored or pigmented articles.

### National Engineering Co.

**Booth 78**

This booth will be devoted to a display of Simpson mixers. Based on a mulling principle, these mixers find wide application for the handling of dry, pasty, plastic, and slurry compositions in the chemical processing fields.

### National Technical Laboratories

**Booth 107**

This display will be comprised of a complete line of Beckman pH equipment, including a laboratory model, an industrial model, the Quinhydrone model, and the Beckman model R automatic pH indicator. A particularly interesting feature of the exhibit will be a display of glass electrodes developed for every type of work.

### Newport Industries, Inc.

**Booth 6**

Newport Industries will exhibit a variety of products derived from Southern pine, comprising rosin products, pine oil derivatives, and turpentine chemicals. Several of the items have never before been offered by naval stores producers on a commercial scale, and two of the products, alphamethylparamethylstyrene and cumic acid, have never before been offered on a commercial scale by any manufacturer. R. C. Palmer, E. V. Romaine, and D. F. Cook will be in attendance at the exhibit.

### Pangborn Corp.

**Booth 80**

A moving display, informing visitors with the facts about dust control has been designed for this space. Samples of the various cloths used for filtering chemical substances, and photographs of Pangborn dust collecting installations will also be shown. Those in attendance will be V. E. Stine, A. L. Gardner, W. O. Vedder, L. W. Wagner, H. E. Schellhase, and M. I. Dorfan.

### Pfaudler Co.

**Booth 90**

A specimen all-glass lined steel distillation assembly will be the center of this exhibit. Also shown will be a jacketed glass lined still, a double-jacketed glass-lined condenser, and an unjacketed receiver with interconnecting glass-lined fittings. P. S. Barnes, general manager of chemical equipment sales will be in charge of the booth. He will be assisted by R. B. Hand, F. B. Morris, D. M. McKay, A. J. Guthman, and J. R. Leigh.

### Podbielniak Centrifugal Super-Contractor Co.

**Booth A**

This display will be devoted to an assortment of fractionating apparatus. Included in the exhibit are "Hyd-Robot" automatic recording low temperature fractionating equipment, and "SuperCool" low temperature fractionating columns.

### Precision Scientific Co.

**Booths 99 and 100**

An assortment of improved laboratory apparatus will be shown at this booth. Among the items displayed will be a "Frigidex" portable cooling unit, floor model constant temperature ovens, all-metal "Thelco" incubators, advance Kjeldahl equipment, improved Saybolt viscosimeter, "Titra-Lite" fluorescent tube titration light, and a variable speed, high torque stirrer.

### Pulverizing Machinery Co.

**Booth 46**

A new bantam "Mikro-Pulverizer" which has been designed primarily for laboratory and pilot plant operation will be exhibited at this location. Also displayed will be a model 2HD "Mikro-Pulverizer" incorporating many of the latest features in design. The latter unit has found considerable use in pilot plant operations.

### Reilly Tar & Chemical Corp.

**Booth 82**

In addition to a representative collection of its regular coaltar products, the Reilly company will show a number of new items in this booth. Among the new products it is producing are: —metacresol, paracresol, aminopyridine, aminopicolin, betapicoline, gamma picoline, 2:6-lutidine, quinoline, acridine, 2-methylnaphthalene, 1-methylnaphthalene, dimethyl naphthalene, diphenyl, fluorene, phenanthrene, chrysene, fluoranthene, acenaphthene, and diphenyleneoxide. Representing the company at the exposition will be William Higburg, general sales manager; Dr. F. E. Cislak, director of research; W. G. Hirschfeld, W. J. Dunnican and F. C. Yeazel.

### Robinson Manufacturing Co.

**Booth 20**

To present a general picture of the equipment it makes, the Robinson company will exhibit a cutter, a mixer, and a gyro-sifter. The knife cutter is of all-steel construction, with a transparent cover. The stainless steel "Unique" mixer features a trowel mixing element which gives a spatulating action, thus smoothing out lumps and insuring thorough mixture. The gyro-sifter has special ball cleaners which insure accuracy of size and optimum screening capacity.

### Ross & Rowe, Inc.

**Booth 42**

A showing of lecithin products, including "Yelkin," its standardized vegetable material has been prepared by Ross & Rowe, Inc. The display will point out that lecithin as a surface modifice is being used extensively, but its extent of usefulness is far from exhausted, leaving a wide field of investigation open for further use. Representatives of the company present at the exposition will be W. K. Hilty and J. E. Lynch.

### Sarco Company

**Booth 83**

The complete line of Sarco heating and steam specialties will be on display in this space. Among such equipment will be thermostatic steam traps; liquid expansion steam traps; float thermostatic steam traps; inverted bucket steam traps, for intermittent condensate removal from high pressure equipment; temperature controls; blenders and mixing valves; and steam and water mixers. Sarco strainers for pipes and Sarco heating specialties will also be shown.

### E.H. Sargent & Co.

**Booth 119**

A diversified display of recently developed laboratory equipment of interest to laboratory men of almost every classification will be shown by the Sargent company. The organization will also cooperate in the educational exhibit of the exposition, with its showing of the Heyrovsky Polarograph.

### Schaar & Co.

**Booth 92**

Center of interest in this display will be the showing of the "Lumetron" photoelectric colorimeter. The instrument is said to be of unusual adaptability and accuracy. Also shown will be a "Titralite" titration unit, illuminated by a fluorescent tube lamp, and several more common items of laboratory equipment.

### Claude B. Schneible Co.

**Booth 134**

A small scale Schneible multi-wash dust, fume, and odor control system made primarily of glass and with portholes at various points, so that internal action may be observed, will be in operation in this booth. Also to be exhibited is an entrainment separator for removing air borne liquids in ventilating systems. Those in attendance at the booth will include Claude B. Schneible, president; L. C. Beers, salesmanager; and C. C. Herrmann, chief engineer.

### Scientific Glass Apparatus Co.

**Booth 70**

A new flash heating device, "Glas-Col," will be featured at this booth. Other new and improved equipment for the laboratory is also to be displayed. The flask heater consists of two sections containing electrical heating elements, which are so shaped as to fit around the bowl of the flask and be held there with a "zipper." The use of electrical elements, permits the heat developed to be accurately controlled, and overcomes fire-risk during the heating of inflammable reagents.

### Sharples Corporation

**Booth 77**

Various types of the Sharples centrifuges will be shown in this space. Displayed models will include a full scale cross sectional model of a No. 6 centrifuge; a totally enclosed, gas-tight, explosionproof "Presurtite" super-centrifuge; a standard laboratory model super-centrifuge, and a specially designed high speed totally enclosed research model super-centrifuge which develops 100,000 times the force of gravity. The exhibit will be in charge of H. H. LaMent, vice-president in charge of sales; W. R. Prosch, Chicago district manager, and C. M. Ambler, chief chemist.

### E.H. Sheldon & Co.

**Booths 137 and 138**

Full details on a new laboratory table top material, "Plasti-Bestos," will be presented in this display. Accompanying it will be a laboratory wall unit with fume hood. The abrasion resistant qualities of various table top materials will be demonstrated in an animated exhibit also designed for the booth.

### Sivyer Steel Casting Co.

**Booths 143 and 144**

A display of sample steel castings, moulded of corrosion resistant metal, will be seen in this space. The assortment will be representative of the various fields of chemical manufacture and processing.

### Chemical Salesmen to Meet In Chemists' Club Dec. 10

The Salesmen's Association of the American Chemical Industry will hold a luncheon-meeting in the Chemists' Club, this city, December 10. Major H. A. Kuhn, of the Chemical Warfare Service, will be the guest speaker. He will discuss a subject relating to national defense. A vote will be taken at the meeting on proposed constitutional amendments. DeWitt Thompson, of the Mathieson Alkali Works, president of the Association, will preside.

**De Witt Thompson**

### Foster D. Snell, Inc.

**Booth 131**

An exhibit of examples of the work done by the Snell organization, representative of its different activities, has been prepared for this booth. Among the testing procedures to be shown are those indicating the effects of laundering on colored fabrics, and the bactericidal and fungicidal qualities of paints containing germicidal agents. Other portions of the exhibit will present information on one-way stretch cotton and rubber fabrics, stretchable patent leather, and the deformation which a lacquer metal coating must undergo during the shaping or forming of the metal in a die stamping press.

### Sparkler Manufacturing Co.

**Booth 30**

The Sparkler company plans to exhibit one of its laboratory and pilot plant filters at this booth. The unit is of polished stainless steel and glass construction. An all-stainless steel unit will also be shown. Paul S. Blomberg, Burton Stinton, A. C. Kracklauer, and H. Corrodi will represent the firm at the exposition.

### Standard Oil Co. (Indiana)

**Booths 35 and 36**

This display will consist of an assortment of the petroleum products manufactured by the Standard Oil Company of Indiana for industrial consumers. Prominent will be a selection of fuel oils, lubricants, and mineral oils to suit any processing need.

### Victor Chemical Works

**Booths 103 and 104**

A display depicting in an interesting manner the uses of phosphoric, oxalic, and formic acids, and their various salts, in industrial processes will be presented in this space. There will also be an exhibit of some newly developed chemicals with a statement of the properties of each, and a suggestion box in which visitors will be invited to deposit suggestions as to possible uses for these products. Particularly desired, are contacts with those to whom some of these products suggest solutions to their problems and who would welcome the cooperation of Victor laboratories to that end.

### Wheelco Instruments Co.

**Booth 43**

Models of the Wheelco "Flame-Otrol," combustion control; "Therm-Otrol," temperature control; and remote "Capacitrols," will be shown in this exhibit. A recently developed liquid level control requiring no contact with the liquid will also be displayed. The company will be represented at the booth by R. A. Schoenfeld, vice-president; George Wheeler, secretary and treasurer; R. W. Murphey, advertising manager, and several members of the sales staff.

### Wilkens-Anderson Co.

**Booth 95**

Photoelectric colorimeters, spectrophotometers, and pH electrometers will be featured in this exhibit of laboratory equipment. In a display of semi-micro analysis apparatus also planned for the booth, Ainsworth balances and Waco electrolytic apparatus for electrolytic depositions will be highlighted.

# Dyestuffs, Textile and Leather Chemicals

**Quebracho Extract Prices Renewed for First Six Months of 1941 —Cutch Prices Extended—Sizing Materials Unchanged —Logwood Imports Gain—Natural Dyestuffs Dull**

Buying was moderate in the market for dyestuffs, textile and leather chemicals last week. Consumers were still satisfied to make replacements to cover nearby requirements. Operations in many basic consuming industries continued favorable. The market offered nothing in the way of price changes. Quebracho extract prices were extended into the first six months of 1941 at current levels, while cutch extract will remain firm for the first quarter.

Operations in the leather industry were favorable, and movement of tanning materials was steady. Most of the extracts were well taken against contracts. Natural dyestuffs were not particularly active, and dealings were usually of a routine character. Sizing materials moved well in most directions. Sulphonated oils displayed continued firmness.

September imports of tapioca and sago starches totaling 48,208,307 pounds were the largest for that month on record and the second largest monthly shipments of the year, according to the Corn Industries Research Foundation. Total for the first nine months this year was 240,850,021 pounds, against 282,391,289 pounds in corresponding period a year ago.

Imports of logwood into the United States during the first 9 months of 1940 amounted to 8,614 tons valued at $94,717, compared with 2,730 tons, valued at $33,341 in the corresponding period of 1939.

## Chemicals

**Alumina Acetate.** — Moderate demand. Prices unchanged.

**Alumina Chloride.**—No new price developments. Interest routine.

**Ammonia Acetate.** — Fair interest, with prices well maintained.

**Ammonia Bichromate.** — Small lots made up the call. Prices unaltered.

**Antimony Salts.**—The call was light, and prices held unchanged.

**Chrome Acetate.**—Usual consumers made fair size replacements.

**Potash Bichromate.** — Shipments moderate active. Prices rule firm.

**Potash Prussiate.**—Routine demand. Quotations steady to firm.

**Soda Bichromate.** — Buying steady. Prices unchanged and tone firm.

**Soda Prussiate.** — Business spotty. No new price developments, with tone steady to firm.

**Suiphonated Oils.** — Market displayed firmness, while purchasing was irregular.

**Zinc Dust.** — Consumers exerted a moderate interest. Prices held firm.

## Dyestuffs

**Arnatto.** — Business narrow. No change was disclosed in the prices.

**Cochineal.**—Dealings routine. Prices underwent no change.

**Fustic.**—Consumers made necessary replacements as a rule.

**Hypernic.**—Steady to firm price tone. Buying only fair.

**Indigo.** — Prices continued firm, while business was held to modest lots.

**Logwood.**—Shipments moved at a routine pace. Prices were firm.

**Madder Dutch.**—Market quiet. There was nothing new to report in the quotations.

**Turmeric.**—Prices were well maintained. Buying held to regular channels.

## Sizing Materials

**Albumen, Blood.** — Steady call. Prices remain the same.

**Albumen Egg.** — Prices continued firm, while inquiries were better.

**Corn Sugar.**—Moderate buying, and tone of the market was steady to firm.

**Dextrin, Corn.** — Prices held unchanged. Bookings were fairly steady.

**Dextrin Potato.**—Prices were withdrawn, and stocks were negligible.

**Egg Yolk.**—Market displayed firmness, and buying was moderate.

### Price Changes

**Advanced**

None

**Reduced**

None

### Comparative Values

Index numbers compiled from nineteen typical dyestuffs on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 153.7 | 153.7 | 149.5 | 149.2 |

Market news that may have developed after this report was sent to press will be found on page 4.

**Sago Flour.**—Inquiries and shipments were moderately active.

**Starch, Corn.**—A satisfactory replacement demand made its appearance. Prices ruled unchanged.

**Starch, Potato.**—Demand for domestic held up well, and prices were the same.

**Starch, Rice.**—Buying steady. Pricewise a firm tone prevailed.

**Starch, Sweetpotato.**—Business held at moderate levels. Prices were without alteration.

**Starch, Wheat.** — Prices unchanged and firm. Demand irregular.

**Tapioca Flour.**—Withdrawals steady. Prices the same, and tone was firm.

## Tanning Materials

**Chestnut Bark.**—Prices firm. Buying moderate.

**Cutch.**—Current prices carried into first quarter of 1941. Business routine.

**Gambier.**—Trading light. Nothing new occurred in the prices.

**Hemlock Bark.** — Shipments moved steadily, and prices were the same.

**Hematine.** — Fair interest, while prices were well maintained.

**Mangrove Bark.**—No new price developments. Satisfactory inquiry.

**Myrobalans.** — Routine demand. Prices failed to change.

**Nutgalls.** — Market quiet. Prices held at previous levels.

**Oakbark.** — Bookings moderate. Pricewise a firm tone prevailed.

**Osage Orange.** — Withdrawals narrow. Prices unaltered.

**Quebracho.** — Contract prices for various grades were carried into the first six months of 1941 at current levels. Demand steady.

**Quercitron.**—Steady to firm price price tone. Transactions irregular

**Spruce.**—Moderate interest. Prices were in line with those prevailing previously.

**Wattle Bark.**—New business light. Prices unchanged.

**Current prices on dyestuffs and tanstuffs are given in the alphabetical list of prices beginning on page 7**

## Bids Wanted

**Acetone:**—5,000 pounds, General Purchasing Officer, Washington; schedule 4565, opening December 12.

**Acid, Muriatic:**—3,000 pounds, General Purchasing Officer, Washington; schedule 4565, opening December 12.

**Carbon Tetrachloride:**—8,000 gallons; Bureau of Supplies and Accounts, Navy Department, Mare Island, Calif.; schedule 4260, opening December 17.

**Enamel:**—2,000 gallons; Commanding Officer, Rock Island Arsenal, Ill.; circular 714, opening December 3.

**Iron Sulphate:**—35,000 pounds, CCC, Boston, Mass.; invitation, 5107-59, opening December 6.

**Glycerin:**—2,500 gallons; Commanding Officer, Rock Island Arsenal, Ill.; circular 715, opening December 3.

**Gum, Dammar:**—100,000 pounds; Bureau of Supplies & Accounts, Navy Department, Norfolk, Va.; schedule 900-4009, opening December 6.

**Ester:**—100,000 pounds; Bureau of Supplies & Accounts, Navy Department, Norfolk, Va.; schedule 4296, opening December 10.

**Linseed Oil:**—7,800 pounds; General Purchasing Officer, Washington; schedule 4564, opening December 10.

**Lead:**—1,000,000 pounds; for Portsmouth; Bureau of Supplies & Accounts, Navy Department, Washington; schedule 4292, opening December 10.

**Soda Ash:**—5,000 pounds, General Purchasing Officer, Washington, D. C.; schedule 4565, opening December 12. 42 tons; Quartermaster; West Point, N. Y.; invitation 1052-87, opening December 4.

**Hydrochlorite:**—3,216 gallons, CCC, Boston, Mass.; invitation 5107-59, opening December 6.

**Toluol:**—4,008 gallons; Materiel Division, Wright Field, Dayton; circular 1052, opening December 4.

**Turpentine:**—4,000 gallons; General Purchasing Officer, Washington; schedule 4564, opening December 10.

**Varnish:**—1,500 pounds; Bureau of Engraving and Printing, Washington; invitation BEP-614, opening December 5.

**White Lead:**—200,000 pounds; General Purchasing Officer, Washington, D. C.; schedule 4564, opening December 4.

## *Bichromate Exports Assured of License*

*—Continued from page 3*

exports, based on the average yield of the ore.

This arrangement may be terminated at any time in case of war or increased domestic demands for chrome products. Chrome ore for metallurgical purposes is classed as a strategic material, and the government is attempting to build up reserve stocks of it in this country. For this reason the Department of State has been reluctant to issue licenses for the export of any chromium product. Chromium chemicals for tanning, textile processing, and pigments are in great demand in many countries in South America and Asia since European sources have been cut off by the war, and American manufacturers have had difficulty in filling foreign orders because of the export license system which is designed to prevent depletion of United States stocks of strategic materials.

Chrome chemicals are normally made from a lower grade of ore than that used for metallurgical purposes, and the new arrangement is designed to protect the reserve stockpile and at the same time to permit bichromate manufacturers to maintain their markets to the extent that they can fill export orders with new imports of chemical-grade ore.

**Nitrogen production** in Italy during 1939-40 was placed at approximately three times that of 1934 when 141,000 short tons was manufactured.

Natural Products Refining Co.
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JUST PUBLISHED 288 PAGES
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Barrett

CUMAR

For your convenience, The Barrett Company announces the following schedule of Cumar prices, effective immediately:

| | Pound |
|---|---|
| **HIGH MELTING GRADES** | |
| Cumar W ½ | $ .13 |
| Cumar W 1 | .12 |
| Cumar W 1½ and W 2 | .11 |
| Cumar W 2½—3½ | .10 |
| **VARNISH GRADES** | |
| Cumar V ½ | .12 |
| Cumar V 1 | .11 |
| Cumar V 1½ and V 2 | .10 |
| Cumar V 2½ — 3½ | .09 |
| **MEDIUM HARD GRADES** | |
| Cumar MH 1 | .11 |
| Cumar MH 1½ and MH 2 | .10 |
| Cumar MH 2½ — 3½ | .09 |
| Cumar MH 9 | .06 |
| **MISCELLANEOUS GRADES** | |
| Cumar RH | .10 |
| Cumar MS | .10 |
| Cumar RS | .10 |
| Cumar P 10 to P 90 Color 2½ and darker | .10 |
| Cumar, Special Soft | .10 |
| Cumar RGV | .07 |
| **DARK GRADES** | |
| Cumar AX | .06 |
| Cumar BX | .06 |
| Cumar CX | .05 |
| Cumar DX | .045 |
| Cumar EX | .045 |
| Cumar FX | .05 |
| **SPECIAL GRADES FOR MASTIC TILE** | |
| Cumar T 3 | .0675 |
| Cumar T 5 | .0625 |
| Cumar T 9 | .06 |
| Cumar HDX | .05 |

All prices apply in drums f.o.b. Frankford, Philadelphia, Pa., freight equalized with Pittsburgh, Pa. Mastic tile grades and dark grades except AX and BX sold on gross weight basis. All other grades sold on net weight basis.

Contracts: Will be offered at ¼c. per pound below prices in the above schedule for the calendar year 1941 subject to quarterly price revision.

Terms: Net cash thirty (30) days from date of invoice.

**The Barrett Company • 40 Rector St. • New York, N.Y.**

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Barrett CHEMICALS

SEND FOR THIS BOOKLET

This new 36-page, pocket-size booklet lists the many important chemicals Barrett manufactures, and provides a finger-tip reference of concise descriptions and uses for each product. We will gladly send your copy on request. No obligation.

# Coaltar Chemicals

**1941 Contracts Accepted in Benzol and Xylol at Firm Levels — Imported Cresylic Acid Easier — Toluol Output Higher —By-Product Coke, Light and Tar Oil Production Gains**

Contracts covering 1941 requirements were accepted for benzol, solvent naphtha and xylol at prevailing list prices. Nitration and pure toluol contracts were taken at current levels, with a maximum of one and one-half cent above prevailing prices. This concludes announcements on basic products for next year. Release of coaltar color and other intermediate prices was looked for within the next week or two. An easing in the various grades of imported cresylic acid provided the only price change. Shipments of most chemicals were steady.

Benzol production continued to run at high levels as evidenced by the latest statistics covering October, which showed a gain of 10.3 percent over the preceding month. Output of toluol during October gained 8.5 percent. Naphthalene showed an increase of 17.6 percent over the September level.

Production of byproduct ovens totaled 4,839,664 tons, an increase of 4.7 percent over the preceding months and compares with 4,627,401 tons in the like month a year ago. Byproduct furnace plants, running at 92.7 percent of capacity, increased their production by 4.3 percent in October. Coke from merchant plants, operating at only 82.8 percent of capacity, showed a larger increase in production for the month than the furnace plants and even added slightly to their supply at hand. Stocks of byproduct coke on hand at producers' plants at the end of October stood at 2,029,395 tons, a decrease of 28,141 tons, or 1.4 percent, when compared with the reserves at the beginning of the month. Byproduct coke was produced at 85 plants, of which 80 made ammonia; 56 benzol; 53 toluol, and 23 naphthalene, according to Bureau of Mines.

Light oil recovery during October was approximately 19,813,788 pounds, against 19,045,875 pounds in September and 18,305,012 pounds in October, 1939. For the first 10 months output aggregated 179,935,357 pounds, compared with 136,279,240 pounds in 1939 period. Tar oil production amounted to 60,064,876 pounds during October, against 58,433,825 pounds in the preceding month and 55,491,069 pounds in October a year ago. Output for the first 10 months totaled 546,862,083 pounds, contrasted with 413,126,228 pounds in the corresponding period a year ago.

**Price Changes**

**Advanced**

None

**Reduced**

Cresylic acid, imported, 2c. per gal.

**Comparative Values**

Index numbers compiled from twenty typical coaltar products on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 126.6 | 126.6 | 127.1 | 126.2 |

Market news that may have developed after this report was sent to press will be found on page 4.

## Basic Products

**Benzol.**—Demand moderate. Sellers writing 1941 contracts at 14c. in tanks, with no maximum clause. October output 12,193,000 gallons, against 11,054,000 in September and 11,151,000 gallons in October, 1939. First 10-month production, 108,356,000 gallons, compared with 81,604,000 gallons same period year ago.

**Carbazole.**—Prices firm, with shipments steady to regular channels.

**Coaltar.**—Routine shipments against contracts. Prices well sustained.

**Creosote Oil.**—Consumers made fair size replacements to keep market in favorable position.

**Cresols.**—Steady to firm price tone prevailed. Buying remained steady.

**Cresylic Acid.**—Domestic prices unchanged, and demand irregular. New arrivals of imported sold at 63c. to 65c. per gallon in drum lots.

**Naphthalene.**—Shipments of crude held steady. Prices unchanged and firm. October production 6,597,000 pounds, against 5,608,000 pounds in September and 5,099,000 pounds in October a year ago.

**Oil, Shingle Stain.**—Trading lacked any feature, while prices were the same.

**Phenol.**—Prices well maintained at levels established recently. Shipments moved steadily.

**Pitch, Coaltar.**—Dealings routine. Quotations ruled firm.

**Pyridin.**—No further price developments, and tone of market was steady to firm. Buying steady.

**Solvent Naphtha.**—Contracts accepted at prevailing list price for 1941. Business moderate.

**Tar Acid Oils.**—Fair interest. Pricewise no change occurred.

**Toluol.** — Sellers writing contracts covering 1941 requirements at 27c. for pure in tanks, with maximum 28½c. per gallon; nitration, 28½c. per gallon in tanks, maximum 30c. October output, 2,419,000 gallons, against 2,230,000 in September and 2,080,000 gallons in October a year ago.

**Xylol.** — Buying moderate. Sellers accepting contracts for 1941 at a prevailing list price.

## Chicago Coaltar Bases

Coaltar bases quiet, but mostly firm and in good market position. Buying has been picking up in irregular fashion and inquiry also is showing a tendency to expand. Benzol business is reported relatively good in some quarters. Ruling prices exclusive of tax are:—Benzol, 90 percent, 14c. to 15c. per gallon; motor benzol, 9c. to 9¼c., nearby refineries; toluol, 27c.; 10-degree xylol, 29c.; solvent naphtha, 26c.; creosote oil, grade 1, 12½c. to 14c.

## Coaltar Acids

**Anthranilic.**—Market routine. Prices remain the same.

**Benzoic.**—Steady to firm price tone, with dealings moderate.

**Broenner's.**—Usual consumers made necessary replacements as a rule.

**Cleve's.**—Buying steady. Pricewise a firm tone prevailed.

**Fumaric.**—Inquiries and shipments held satisfactory. Prices unaltered.

**Gamma.**—Transactions routine. Nothing new occurred in the prices.

**H.**—Trading lacked any broadening, while prices remain firm.

**Laurent's.** — Consumers made fair size replacements to keep market firm.

**Maleic.**—Shipments moderately active, and prices well sustained.

**Current prices on coaltar products are given in the alphabetical list of prices beginning on page 7**

**Malic.**—Demand moderate. No change disclosed in the quotations.

**Picramic.**—Prices unchanged and firm. Business steady.

**Picric.**—Shipments moved well, and prices rule firm.

**Salicylic.**—Fair demand for technical, with prices the same.

**Succinic.**—Dealings routine. Quotations unaltered.

**Sulphanilic.**—Withdrawals held at moderate levels. Prices unchanged.

**Tobias.**—The call was fairly steady, and prices held firm.

## Other Intermediates

**Alphanaphthol.**—Spot and contract withdrawals steady. Prices unchanged.

**Anilin.**—Prices firm, and trading held at satisfactory levels.

**Anthraquinone.**—Buyers exerted moderate interest, and prices well sustained.

**Benzaldehyde.**—Prices underwent no change, and dealings were routine.

**Benzidin Base.**—Usual consumers provided the market with steady support. Prices unchanged .

**Betanaphthol.** — Withdrawals fair, and prices lacked any change.

**Betanaphthylamine.**—Prices remain the same, while business was routine.

**Diethylanilin.**—Moderate demand. Pricewise a firm tone predominated.

**Dimethylanilin.** — Shipments moved well, and prices held steady to firm.

**Dinitrobenzene.**—The call was steady. Prices failed to change.

**Dinitrochlorobenzene.**— Business moderately active. Prices rule firm.

**Dinitronaphthalene.**—Buying steady. Nothing new occurred in the prices.

**Dinitrophenol.** — Fair interest, with prices well maintained.

**Dinitrotoluene.** — Market tone firm, and demand steady.

**Diphenyl.**—Business held to nearby requirements. Prices unchanged.

**G. Salt.**—Dealings routine. Prices remain the same.

**Metanitroparatoluidin.**—Small quantities continued to make up the call.

**Nitrobenzene.** — Shipments steady. Prices remain firm.

**Nitronaphthalene.** — The call was moderate, and prices unchanged.

*—Continued on page 44*

## *Books You Can Use*

### Sulphonated Oils

**Sulphated Oils and Allied Products.** By D. Burton and G. F. Robertshaw. Cloth; 168 pages. New York: Chemical Publishing Company. $5.

The latest information on the chemistry and methods of analysis of the sulphonated, or sulphated, oils is presented in this volume. Timely, since the sulphonated oils are finding increasing application as wetting and emulsifying agents in numerous industries, this work thoroughly discusses the products obtained and the procedures employed when fatty acids, oils, and alcohols are subjected to the process of sulphonation.

As regards the analysis of these materials, the authors collect in one volume the data at this time available to the technical worker. The methods proposed for the determination of the various analyses are discussed in detail, not only as concerns the method itself, but also from a critical viewpoint.

### 'SEC' Not U.S. Monopoly

The Rohm & Haas Company, Philadelphia, has been given the right by the United States Patent Office to register the name, "S.E.C. Oil," for an adhesion agent for use in insecticidal compositions. This grant reversed a patent examiner's refusal of the application on the grounds that "SEC" is the common designation of the Securities and Exchange Commission, a governmental agency.

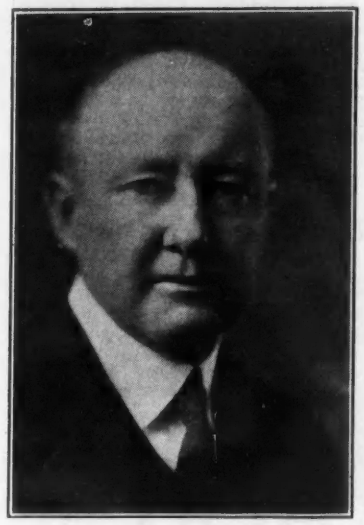
### Malay Rubber Industry Imports Its Acid Needs

*OPD Washington Bureau*
*November 27, 1940*

Rubber coagulants in British Malaya during the first half of 1940 were imported to the value of 1,210,564 Straits dollars, according to the Chemical Division of the Department of Commerce. Incoming shipments of acetic acid during the period totaled 2,301 tons valued at SD998,190; imports of formic acid were 403 tons, value SD212,374. During the same period exports of acetic acid totaled 170 tons, value SD106,108, of formic acid 76 tons, value SD54,881 and of rubber coagulant other than acetic acid and formic acid 468,467 pounds, value SD100,048.

### Densol Paint Sold To Passonno-Hutcheon Co.

Densol Paint Company has been acquired by Passonno-Hutcheon Company, also of this city. Operations of the Densol paint will be moved to the plant of the Passonno-Hutcheon organization. E. V. Ladd, who has been vice-president of Densol Paint, has been named manager of the Densol division, under which title the acquisition will be operated, as well as acting as technical director of the Passonno-Hutcheon Company.



**M. J. Sullivan**

**Who has been made executive vice-president of the American Can Company. Formerly vice-president in charge of the Pacific district, Mr. Sullivan will make his headquarters at the general offices in this city.**

### Buffalo Paint Club Will Discuss Plant Camouflage

*Buffalo, Nov. 29, 1940*

"Industrial Camouflage," the science of concealing industrial plants from possible bombing attacks, will be the principal topic of discussion at the January 10 meeting of the Buffalo Paint, Varnish & Laquer Association. Harry M. Bell, director of the Art Institute of Buffalo, will be guest speaker. The executive committee of the club announced that the annual ladies' night party will be held February 15.

### Swainson Joins Vita-Var

E. D. Swainson has been made general superintendent of the paint and varnish plant of the Vita-Var Corporation, Newark, N. J. Mr. Swainson has been affiliated with Devoe & Raynolds since 1909, the year in which he graduated from Pratt Institute. He has been superintendent of its Brooklyn plant.

### Pitts. Production Club Told About Aluminum Paint Tests

*Pittsburgh, Nov. 25, 1940*

A description of tests on aluminum paint and vehicles conducted by the Neville Company, this city, was given by Lyle M. Geiger, of that company, at the November meeting of the Pittsburgh Paint and Varnish Production Club. Mr. Geiger confined his remarks largely to leaf retention, package stability, and weathering of specific paints, using cumarone resins cut cold in conjunction with certain heavy bodied, boiled vegetable oils in both petroleum and coaltar solvents.

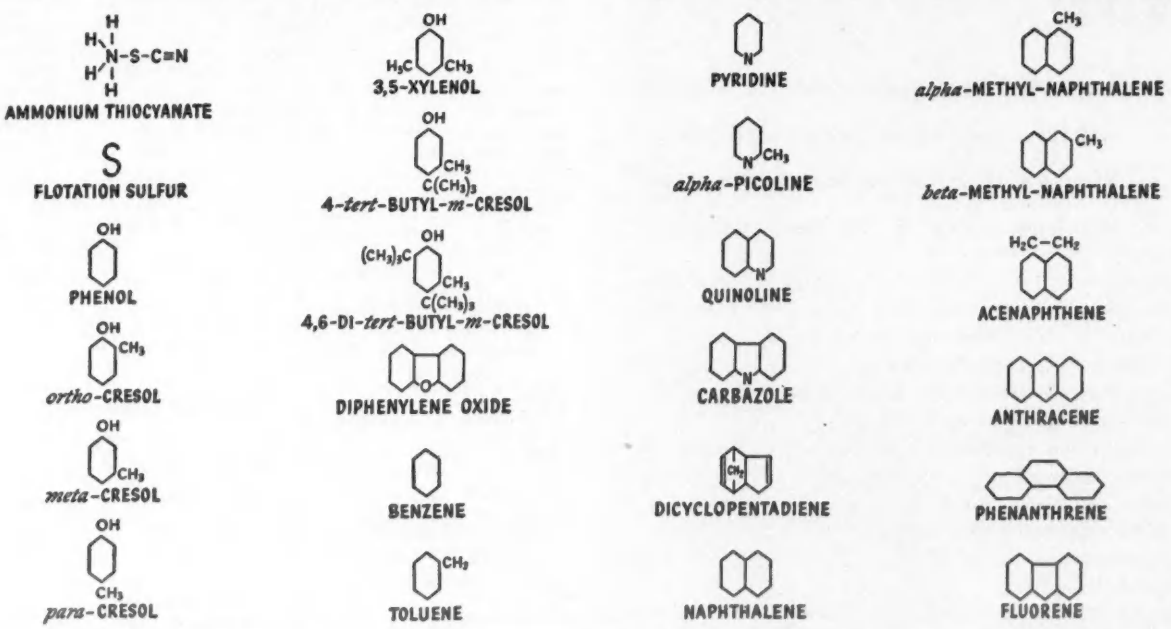
### 'Teel' Approved as Trademark

The United States Patent Office has permitted the Procter & Gamble Company to register "Teel" as the name of a dentifrice. A patent examiner had ruled that "Teel" was not registerable because it was a descriptive word.

**Baker Castor Oil Company** plans improvements, alterations and additions at its Bayonne, N. J., plant.


**SEE THE KOPPERS EXHIBIT** *of Chemicals derived from Coal*

**The development of the synthetic chemical industry has created an interest in chemicals from coal, many of which heretofore have not been available in the United States in commercial quantities.**




At the National Chemical Exposition, Koppers will exhibit the chemicals listed here. Some of them are already in commercial production and others, now produced in semi-commercial quantities, can be made available in larger volume if desired. Koppers technical representatives will be present at Booths 117 and 118 and would appreciate an opportunity to discuss these products with you.

**KOPPERS COMPANY · KOPPERS BUILDING · PITTSBURGH, PA.**

**KOPPERS**

# Coaltar Chemicals

## Other Intermediates

—*Continued from page 43*

**Orthoanisidin.** — Business routine. No change in the quotations.

**Orthochloroanilin.** — Replacement buying was sufficient to keep market in firm position.

**Orthochlorophenol.** — Fair demand. Pricewise a firm tone prevailed.

**Orthoeresol.**—Shipments moved at a good pace. Prices steady to firm.

**Orthodichlorobenzene.** — Demand moderately active. Prices rule firm.

**Orthonitroanilin.** — Withdrawals fairly steady, and prices lacked change.

**Orthonitrotoluene.** — Market retained its firm position, and buying steady.

**Orthotoluidin.**—Steady to firm price tone. Business steady.

**Parachlorophenol.** — Demand irregular. Prices unchanged and firm.

**Paranitrotoluene.** — Prices unchanged, and buying moderate.

**Phthalic Anhydride.**—Demand contined steady. Prices unchanged and tone of market firm.

**R. Salt.**—Market a routine affair. Nothing new developed in the prices.

**Schaeffer's Salt.** — Usual consumers provided fair interest. Prices unchanged.

**Thiocarbanilide.** — Dealings moderate, but steady. Prices unaltered.

**Toluidin.** — Prices firm and unchanged. Business moderately active.

**Xylidin.**—Nothing new occurred in the prices, while transactions were steady.

## Coaltar Colors

Business in the market for coaltar colors continued moderate and steady last week. Practically all consuming industries were supporting the market well, operations in the textile trade were regarded as favorable in view of the increased government buying. Inquiries for export continued satisfactory. Release of 1940 contract prices were looked for within the next week. Meanwhile, prices were steady to firm.

### Manchuria Adds Coaltar Dyes To Monopoly Control List

The industry department of Manchuria has designated Japan-Manchuria Trading Company control agent of coal-tar dyes in addition to a long list of chemical products and minerals of which it was made control agent by like order dated January 6, 1940. The company is a "Manchukuo" national corporation owned by the South Manchuria Railway Company and "Manchukuo" coal and iron mining monopolies.

### Calco N.Y. Office Moved

The New York office of the Calco chemical division of the American Cyanamid company has been moved to 30 Rockefeller Plaza, in which building the officers of the parent corporation and other units of the American Cyanamid are located. The Calco division formerly maintained its New York office at 90 West street. Its new phone number is Circle 7-4150.


CRESYLIC ACID 97-99% Pale

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180 MADISON AVE. Telephones: AShland 4-2265 and 4-2266 NEW YORK

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has these exclusive features which increase your production, cut processing costs and assure you a better product

Here is a Benzol completely free of corrosive compounds — that will keep your stills running on a continuous maximum production basis — with fewer shut-downs for cleaning.

J & L CXP Benzol is made by an exclusive process giving it a high degree of purity that marks it as one of the outstanding chemical achievements of the day.

You are assured better distilling operations, lower operating costs and increased production by using J & L CXP Benzol — always uniform and always consistent.

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AMERICAN IRON AND STEEL WORKS
PITTSBURGH, PENNSYLVANIA

J&L STEEL


# What You Can Use

**Guide to Materials That Are Suitable for Various Purposes in Chemical Converting, Compounding, and Processing Industries**

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**Three-hundred-fifty-fourth Instalment**

## Peanut Oil

### Adulterants to Be Looked for in Peanut Oil

Cottonseed oil
Other seed oils
Poppyseed oil
Sesame oil

### Catalysts Used in Hydrogenation of Peanut Oil

Carbon
Cerium
Cerium carbide
Cerium oxide
Cerium salts
Charcoal
Chromium
Cobalt
Cobalt, colloidal
Cobart carbide
Cobalt oxide
Cobalt silicide
Copper
Didymium
Didymium carbide
Didymium oxide
Iron
Iron, colloidal
Iron carbide
Iron carbonyl
Iron compounds
Iron oxides
Iron silicides
Lanthanum
Lanthanum carbide
Lanthanum oxide
Lanthanum salts
Lead-methyl
Manganese
Mercury-methyl
Molybdenum
Nickel
Nickel, colloidal
Nickel carbide
Nickel carbonyl
Nickel oleate
Nickel oxide
Nickel silicide
Palladium
Platinum
Rare earth metals
Rare earth carbides
Rare earth oxides
Rare earth salts
Selenium
Tellurium
Thallium
Thorium
Thorium carbide
Thorium oxide
Thorium salts
Tin-methyl
Titanium
Vanadium
Zinc-methyl
Zirconium

### Catalyst Carriers Used in Hydrogenation of Peanut Oil

Asbestos
Carbon
Cnarcoal
Fuller's earth
Graphite
Kieselguhr

### Emulsifiers for Peanut Oil

Ammonium linoleate
Amylamines
Diamylamines
Diglycol stearate
Emulsifier B 585
Emulsone
Emulsone B
Glycol stearate
Glycopon
Methyl oleicsulphonate
Methylhexalin
Miscibol
Potassium heptanaphthalenesulphonate
Saponin
Sodium alphatetrahydronaphthalenesulphonate
Sodium oleate
Solvoil
Suspendite
Triamylamines
Triethanolamine
Trihydroxyethylamine
Trihydroethylamine linoleate
Trihydroxyethylamine stearate

### Reagent Used to Accent Flavor of Peanut Oil

Nitrobenzene

### Reagent Used to Prevent Separation of Peanut Oil from Peanut Butter

Glycerin

### Solvents for Peanut Oil

Alcohol
Benzin
Ether
Carbon bisulphide
Carbon tetrachloride
Chloroform
Petroleum ether

## Pectins

### Reagents for Removing Pectins from Fibers

Alkalies
Alkali carbonates
Alkali hydroxides
Alkali phosphates
Alkali salts
Alkali silicates
Alkali-earth carbonates
Alkali-earth hydroxides
Alkali-earth phosphates
Alkali-earth salts
Alkali-earth silicates
Ammonium carbonate
Ammonium hydroxide
Ammonium phosphate
Ammonium salts
Ammonium silicate
Calcium carbonate
Calcium hydroxide
Calcium phosphate
Calcium silicate
Potassium carbonate
Potassium hydroxide
Potassium phosphate
Potassium silicate
Sodium carbonate
Sodium hydroxide
Sodium phosphate
Sodium silicate

### Solvents for Pectins

Caustic potash solution (1 to 2 percent)
Dichloroethyl ether
Water

*(Solution forms a jelly when treated with alcohol)*

## Perborates

### Reagents Used in Manufacture of Perborates

Borax
Boric acid
Hydrogen peroxide
Sodium peroxide

### Solvents for Perborates

Alkalies
Glycerin
Water

### Stabilizing Agents for Perborate Preparations

Sodium stannate
Sodium stannichloride
Sodium-tin chloride
Stannic acid
Stannic oxide
Stannophosphate
Stannous oxide

## Peroxide Solutions

### Reagents for Detecting Presence of Peroxide Ion

Titanic acid anhydride
Titanium oxide
Vanadic anhydride
Vanadium pentoxide

### Stabilizing Agents for Peroxide Solutions

Acetanilide
Acetophenetidin
Acetyl derivatives of aromatic bases
Acetylpara-aminophenol
Amides
Barbituric acid
Hippuric acid
Hydrofluosilicic acid
Imides
Malonylurea
Neutral organic compounds
Phosphoric acid and tin compounds
Sodium laurylpyrophosphate
Sodium myristylpyrophosphate
Sodium oleylpyrophosphate
Sodium ricinoleylpyphosphate
Urea derivatives
Uric acid

## Perspiration Deodorants

### Ingredients Used in Perspiration Deodorants

Aluminum chloride
Aluminum palmitate
Benzoic acid
Betanaphthol benzoate
Clove oil
Eucalyptol
Menthol
Methyl salicylate
Salicylic acid
Sodium borate
Sodium perborate
Thymol
Zinc oleate
Zinc peroxide
Zinc phenolsulphonate

## Petroleum

### Dewaxing Reagents for Treating Petroleum Oils

Alkaline silicates
Aluminum stearate
Anthracene
Cellular filter aids
Clays
Colloidal substances, such as bitumen or grahamite
Diphenyl
Grain hulls, ground
Higherly polymerized or condensed high-molecular-weight paraffins or their halogen, oxygen, or sulphur derivatives
Ice, finely divided
Lampblack
Lead sulphide
Lead sulphate
Litharge
Naphthalene
Paperstock
Paradibromobenzene
Paradichlorobenzene
Phenanthrene
Phenol
Wood pulp

*(To be continued)*

# Paint, Varnish, Lacquer Materials

**Pig Lead, Lead Oxides Reduced in Surprise Move—Ethyl Acetate, Special Solvent Alcohol Advanced — Carbon Black Unchanged for New Contracts—Turpentine Easier**

In an unexpected move last Thursday, prominent sellers of pig lead lowered prices at New York and East St. Louis. The reduction came as a distinct surprise as the previous figure was believed firmly supported by the well-sold position of leading sellers, following the buying wave two weeks ago. Car lot prices of lead oxides were reduced in line with the metal drop.

One prominent producer of carbon black announced that contracts for first quarter delivery would be written at unchanged prices. It was expected that other factors would follow suit. Advances during the week included special solvent alcohol and ethyl acetate. Rosin and turpentine were quieter in Southern and local markets, consumers being disposed to curtail purchases and await further developments in connection with the loan program for next season. Turpentine weakened. Rosin was irregular.

The proposed Federal specification for flatting oil, published three months ago, will be kept open for comment until the end of this week by the technical committee on paints of the National Bureau of Standards. The proposed specification for dry and paste indian red also will be closed December 9.

## Metallic Lead and Zinc

Pig lead prices were reduced 15 points per pound last Thursday. New quotations were 5.65c. to 5.70c. per pound at New York and 5.50c. at East St. Louis. The January books were opened late in the day, but the amount of business placed was small. December needs were estimated to be about 95 percent covered by the end of the week. Slab zinc activity continued to center on futures. The price was steady.

**Lead.** — Prevailing spot price at New York, East St. Louis and London for the period from November 23 to November 29, inclusive, were as follows:—

| | Pigs: Per pound New York. | Pigs: Per pound E. St. Louis. | Spot. London. Per ton £ s. d. |
|---|---|---|---|
| Saturday | $0.0580@.0585 | $0.0565 | .. * .. .. |
| Monday | .0580@.0585 | .0565 | .. .. .. |
| Tuesday | .0580@.0585 | .0565 | .. .. .. |
| Wedn'sd'y. | .0580@.0585 | .0565 | .. .. .. |
| Thursday | .0565@.0570 | .0550 | .. .. .. |
| Friday | .0565@.0570 | .0550 | .. .. .. |

* London exchange closed.

**Zinc.** — Prevailing spot prices at New York, East St. Louis and London for the period from November 23 to November 29, inclusive, were as follows:—

| | Slabs: Per pound New York. | Slabs: Per pound E. St. Louis. | Spot. London. Per ton £ s. d. |
|---|---|---|---|
| Saturday | $0.0765 | $0.0725 | .. * .. .. |
| Monday | .0765 | .0725 | .. .. .. |
| Tuesday | .0765 | .0725 | .. .. .. |
| Wednesday | .0765 | .0726 | .. .. .. |
| Thursday | .0765 | .0725 | .. .. .. |
| Friday | .0765 | .0725 | .. .. .. |

* London exchange closed.

## Pigments

**Antimony White.** — Business fair. Price steady.

**Flake White.**—Routine demand. No change in quotation.

**Litharge.**—Car-lot prices of the commercial powdered material were reduced 15 points per pound to 7.40c. for delivery to the South and West and 7.15c. for delivery to other points.

**Lithopone.** — Better than normal trade reported. Shipments in good volume. Inquiries numerous. Quotations unrevised.

**Red Lead.**—The delivered price of car-lot quantities was reduced 15 points to the following figures:—95 percent material, 8.40c. per pound to South and West and 8.15c. to other points; 97 percent, 8.65c. to South and West and 8.40c. to other points; 98 percent, 9.90c. and 8.65c.

**Titanium Pigments.**—Good movement into consumption continued unabated. Prices unchanged.

**White Lead.**—Market normal. Demand fair. Prices steady.

### Price Changes

**Advanced**

Alcohol, special solvent, 1c. per gal.
Ethyl acetate, ½c. per lb.

**Reduced**

Lead, oxides, 15 points per lb.
pig, 15 points per lb.
Rosin, gum, 2c. to 13c. per 100 lbs.
Turpentine, gum, 1¼c. per gal.

### Comparative Values

Index numbers compiled from eleven typical paint and varnish materials on the basis of 100 for August 1, 1914, compare as fololws:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 126.8 | 126.8 | 126.8 | 131.2 |

Market news that may have developed after this report was sent to press will be found on page 4.

**Zinc Oxides.**—Continued one of the pacemakers of division, with demand good and prices firm and unchanged.

## Fillers and Extenders

**Asphaltum.**—Normal demand. No changes reported.

**Barytes.** — Satisfactory movement into consumption. New business fair. Prices steady and unchanged.

**China Clay.**—Buying interest slightly smaller but shipments satisfactory. Prices firm.

**Diatomaceous Earth.** — Routine trade. Price steady.

**Fullers Earth.** — Satisfactory call. Price unchanged.

**Marble Flour.**—Routine and firm.

**Mica.**—Good demand recorded by prominent producers. Shipments fairly heavy. Prices unrevised.

**Talc.**—Domestic grades moving in better than normal fashion. Prices firm. Imported material scarce and nominal.

**Woodflour.**—Good call for domestic material. Quotations unchanged. Norwegian product unavailable.

## Driers

Movement of stearates and palmitates against contracts continued to taper in line with seasonal considerations. Shipments still fairly satisfactory, however. Prices firm.

## Naval Stores

Business in primary and local markets for rosin and turpentine was quiet much of the time last week. The slowing down of trade was attributed by some to uncertainty as to the government loan values for next season, consumers and dealers being disposed in many cases to curtail purchases pending a definite announcement from Washington as to the details of the program. A reactionary tendency in the markets for securities and various

**Current prices on paint, varnish and lacquer materials are given in the alphabetical list of prices beginning on page 7**

HOOT MON! PARANOL 25

FOR A MON WI' AN EYE TO LOW COST PRODUCTION

Paranol 25 is a bonny buy . . . and the quality would truly surprise a mon wi' a searchin' pair of eyes!

And listen, mon! The way it works wi' softer oils will make your heart do a highland fling for glee. — Sshish! A sample and data dinna cost ye nothin'.

*Our Technical Staff is at Your Service*

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PARAMET CHEMICAL CORPORATION
MANUFACTURERS OF SYNTHETIC RESINS
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*Quotations will be furnished promptly upon request.*

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DURITE
PEERLESS CLAY
RAYBAR
RAYSIL
PYRAX
MULTIFEX
THERMATOMIC BLACKS

**RAYOX**—Pure Titanium Dioxide
**RAYCAL**—Titanium Calcium Pigment
**SURFEX**—Surface-Treated Calcium Carbonate
**DURITE**—Pure Phenolic Resin
**PEERLESS CLAY**—Domestic China Clay

★ *Write for Samples*

**RAYBAR**—Titanium Barium Pigment
**RAYSIL**—Titanium Silicate Pigment
**PYRAX**—Ground Pyrophyllite
**MULTIFEX**—Colloidal Calcium Carbonate
**THERMATOMIC BLACKS**—Carbon Blacks of Low Oil Absorption

EACH PRODUCT IS OF THE HIGHEST QUALITY IN ITS CLASS

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other commodities also made buyers of naval stores disposed in some instances to pursue a waiting course.

In the case of turpentine the slowing down of trade was reflected in an easier tone in the primary center, where sales were reported on Wednesday at 30¼c. per gallon, this figure showing a decline of 2½c. as compared with the last previous transactions. Rosin showed irregularity, as offerings of some grades were larger than had been expected. The government continued to supply rosin, but remained out of the market as a seller of turpentine. Offerings of both commodities from private sources, though somewhat freer, were still generally rather light or moderate.

In trade quarters the opinion still existed that the government loan on turpentine would be fixed at about 30c. per gallon in bulk, and rosin loan values show a reduction of from 10 to 15 percent as compared with the current season, but there was sufficient uncertainty, as already intimated, to make consumers and dealers disinclined, for the time being, to purchase in advance of current needs.

**Turpentine.**—The local market for turpentine was rather quiet last week, buying interest apparently being limited to comparatively small quantities to meet the current needs of consumers. The tone was easier, in company with developments in the South, where buyers were apparently disposed to hold off for further developments in the situation.

SAVANNAH, Nov. 29.—Following is a record of the turpentine market for the week:—

| | Gallons | | Barrels | | |
|---|---|---|---|---|---|
| | Cents. | Sales. | Receipts. | Shipments. | On hand. |
| Saturday* | .. | ... | ... | ... | ... |
| Monday | 32¾ | 12,550 | 51 | 585 | 11,216 |
| Tuesday | 32¾ | ... | 316 | ... | 11,562 |
| Wednesday | 30¼ | 12,403 | 186 | ... | 11,718 |
| Thursday | 31 | 10,950 | 194 | ... | 11,912 |
| Friday | 31½ | 6,950 | 119 | 12 | 12,019 |

* No trading.

JACKSONVILLE, Nov. 23.—Turpentine stock 20,971 barrels.

PENSACOLA, Nov. 23.—Turpentine stocks 10,902 barrels.

**Chicago—November 29**

Turpentine fairly active. Five-drum lots, 45c.; five wood barrels, 50c.; single drums, 48c.; single barrels, 53c.

**Rosin.** — Local rosin quotations showed irregularity last week in company with developments in the primary center where offerings of some grades were larger than had been expected. Business here was rather quiet, consumers and dealers generally being disposed to limit their takings to comparatively small or moderate quantities.

SAVANNAH, Nov. 29.—Following is a record of the rosin market for the week:—

| | Price per unit—Low of range quoted— | | | | | |
|---|---|---|---|---|---|---|
| | *Sat. | Mon. | Tues. | Wed. | Thurs. | Fri. |
| B | ... | $1.83 | $1.78 | $1.80 | $1.80 | $1.80 |
| D | ... | 1.84 | 1.80 | 1.89 | 1.85 | 1.75 |
| E | ... | 1.92 | 1.82 | 1.81 | 1.81 | 1.78 |
| F | ... | 1.92 | 1.82 | 1.81 | 1.87 | 1.78 |
| G | ... | 1.91 | 1.81 | 1.81 | 1.80 | 1.78 |
| H | ... | 1.90 | 1.81 | 1.81 | 1.80 | 1.78 |
| I | ... | 1.84 | 1.88 | 1.82 | 1.83 | 1.83 |
| K | ... | 2.00 | 2.00 | 2.00 | 2.01 | 2.01 |
| M | ... | 2.16 | 2.16 | 2.16 | 2.15 | 2.16 |
| N | ... | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 |
| WG | ... | 2.51 | 2.52 | 2.52 | 2.52 | 2.52 |
| WW | ... | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| X | ... | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |

| | Barrels | | | | |
|---|---|---|---|---|---|
| Sales | ... 128 | 615 | 269 | 441 | 157 |
| Receipts | ... 1,228 | 850 | 742 | 545 | 724 |
| Shipments | ... 1,143 | 370 | 100 | ... | 582 |
| Stocks | ... ... | ... | ... | ... | 169,420 |

* No trading.

JACKSONVILLE, Nov. 27.—Rosin stock 321,812 barrels.

PENSACOLA, Nov. 23.—Rosin stocks 53,221 barrels.

**Chicago—November 29**

Rosin quieter. Ruling prices at the close last night in five-drum lots were:—B grade, $3.11 per lot of 100 pounds, net; G grade, $3.15; M grade, $3.24; W.W. grade, $4.05.

## Other Naval Stores

**Pine Oil.**—Local quotations maintained. Market firm. Business less active.

**Pitch.**—Fair movement of moderate lots. Spot stocks limited. Prices firm.

**Rosin Oil.**—Consumers purchasing for current needs only. Market steady.

**Tar.**—Selling schedules maintained. Steady contract movement. New business quieter.

## Dry Colors

**Alkali Blue.**—Fair call. Prices firm.

**Bone Black.** — Shipments light. Prices firm.

**Carbon Black.**—One prominent producer will write new contracts at unchanged prices. Other factors indicate no changes.

**Carmine No. 40.** — Market quiet. Price steady.

**Chrome Colors.** — Routine movement. No changes in quoted prices.

**Iron Oxides.**—Demand holding well. Shipments regular and in fair-sized volume. Prices steady and unchanged.

**Lamp Black.**—Routine and firm.


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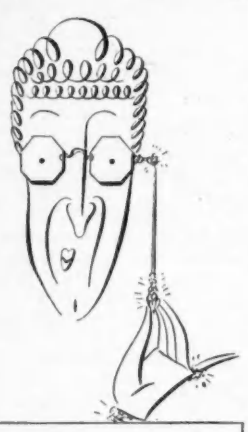
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ONLY HIGH FLASH HAS GIVEN YOU
- Slow, even, uniform evaporation.
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**Mercuric Oxides.**—Small demand to cover immediate needs. Prices unchanged.

**Ocher.**—Conservative call for deliveries. Prices firm.

**Sienna.**—Fair demand. Quotations unaltered.

**Ultramarine Blue.**—Most contracts fulfilled. Spot call small.

**Umber.**—Normal business. Prices unchanged.

**Vermilion.**—Quicksilver material attracting fair interest for shipment in small volume. Price steady.

## Lacquer Materials

An advance effective immediately in all grades of ethyl acetate provided the outstanding price development in the market for lacquer materials and solvents last week. The higher prices were attributed principally to the increased raw material costs. Word concerning other solvent prices was looked for in the near future. Sellers were in receipt of a satisfactory number of orders, and shipments moved out steadily to various basic consuming channels.

**Acetone.**—Market position firm, and trade awaiting next year contract prices. Demand steady.

**Butyl Acetate.** — Shipments well maintained, and market was firm.

**Butyl Alcohol.**—Firm price tone, with buying steady.

**Cellulose Acetate.**—Business moderately active. No change in prices.

**Dibutyl Phthalate.**—Dealings routine, with prices well maintained.

**Ethyl Acetate.**—All grades advanced ½c., making 85-90 percent in tanks 6½c. per pound; 95-98 percent, tanks, 6¾c. per pound. Prices on Pacific Coast are ½c. higher as is the case with many other solvents. Demand steady.

**Ethyleneglycol.** — A good interest prevailed. Prices underwent no change.

**Isopropyl Acetate.**—The call was steady, and prices continued firm.

## Shellac

Spot prices on shellac advanced no further last week but the market continued strong and the tendency was upward. Advices from Calcutta showed clearly that the market there is definitely strong and, because of less than normal stocks, probably destined ultimately for higher levels. The situation in India may be guaged somewhat by the fact that Russia has been a very heavy buyer in this market in the not far distant past. Russian consumption has reached very substantial proportions during the past several years and it certainly is news when the Soviets take 15,000 packages out of New York. Demand was reported excellent, well sustained, and signs of continued coverage of needs on a substantial scale were not lacking.

## Varnish Gums

Most types of natural resins in good demand during the period, and movement was much better than is ordinarily expected at this time of year. Prices steady and unrevised. Exports of gum copal from the Belgian Congo to the United States totaled 1,469 metric tons, valued at $125,453, during the first eight months this year.

## Synthetic Resins

Ester gum movement continued to hold to a good level during the week.

"SHOW ME" BUYERS
are our
Steadiest Customers

Men who insist on proof of performance—and then double-check the proof with tests of their own—are the best customers we have for our D. D. Wood Turpentine, (Fed. Spec. LLL-T-792), our three Dipentenes and Guai-A-Phene. For superior solvent value, specify these fine products

★ D. D. WOOD TURPENTINE

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# Paint, Varnish, Lacquer Sales Up

The value of paint, varnish, lacquer and fillers sold in October, as reported by 680 establishments to the Bureau of Census, was $39,179,174. Details of sales reported by these establishments and comparative data for 1939 follow:—

| | Total sales reported by 680 establishments. | Classified sales reported by 580 establishments: Trade sales of paint, varnish, and lacquer. | Industrial sales: Total. | Industrial sales: Paint and varnish. | Industrial sales: Lacquer. | Unclassified sales reported by 100 establishments. |
|---|---|---|---|---|---|---|
| 1940. | | | | | | |
| January | $28,666,635 | $13,549,867 | $12,317,340 | $8,369,445 | $3,947,895 | $2,799,428 |
| February | 26,537,573 | 13,042,764 | 11,146,277 | 7,584,649 | 3,561,628 | 2,348,532 |
| March | 31,592,093 | 16,144,606 | 12,639,821 | 8,681,802 | 3,958,019 | 2,807,666 |
| April | 37,656,398 | 20,188,957 | 13,849,723 | 9,851,848 | 3,997,875 | 3,617,718 |
| May | 43,463,222 | 24,943,448 | 14,150,310 | 10,146,311 | 4,003,999 | 4,369,464 |
| June | 37,897,861 | 21,718,413 | 12,582,231 | 9,052,581 | 3,529,650 | 3,597,217 |
| July | 35,553,580 | 19,573,840 | 12,732,233 | 9,611,083 | 3,121,150 | 3,247,507 |
| August | 36,441,511 | 19,302,935 | 13,651,210 | 9,703,492 | 3,947,718 | 3,487,366 |
| September | 35,327,356 | 18,416,711 | 13,458,969 | 9,237,834 | 4,221,135 | 3,451,676 |
| October | 39,179,174 | 19,638,441 | 15,953,121 | 10,759,348 | 5,193,773 | 3,587,612 |
| T'tals (10 mos.) | $352,315,403 | $186,519,982 | $132,481,235 | $92,998,393 | $39,482,842 | $33,314,186 |
| 1939. | | | | | | |
| January | 25,166,042 | 12,496,706 | 10,269,334 | 6,942,879 | 3,326,455 | 2,400,002 |
| February | 25,399,464 | 13,145,314 | 10,019,901 | 6,777,622 | 3,242,279 | 2,234,249 |
| March | 32,888,357 | 17,656,995 | 12,112,220 | 8,278,015 | 3,834,205 | 3,119,142 |
| April | 33,999,205 | 18,862,040 | 11,843,829 | 8,581,577 | 3,262,252 | 3,293,336 |
| May | 41,853,977 | 25,436,932 | 12,578,360 | 9,259,538 | 3,318,822 | 3,838,685 |
| June | 38,504,857 | 22,341,180 | 12,585,957 | 9,328,873 | 3,257,084 | 3,577,720 |
| July | 30,758,617 | 17,215,946 | 10,713,443 | 7,982,902 | 2,730,541 | 2,829,228 |
| August | 34,448,530 | 19,046,555 | 12,153,308 | 8,842,098 | 3,311,210 | 3,248,667 |
| September | 38,379,427 | 21,413,297 | 13,381,467 | 9,539,705 | 3,841,762 | 3,584,663 |
| October | 35,827,911 | 18,466,640 | 14,007,459 | 9,718,466 | 4,288,993 | 3,353,812 |
| T'tals (10 mos.) | $337,226,387 | $186,081,605 | $119,665,278 | $85,251,675 | $34,413,603 | $31,479,504 |
| Totals (year).. | 394,508,431 | 213,749,249 | 144,097,231 | 102,405,167 | 41,692,064 | 36,661,951 |

Shipments were lighter than a month ago, but were still considered satisfactory. Price steady and unchanged.

## Glues and Binders

**Casein.**—Demand well maintained. Production still below normal. Prices firm and unchanged both for domestic and Argentine material.

**Glues.**—Hide and bone glues remained strong and in heavy demand.

## *Building Supplies Group Dispersed*

*—Continued from page 5*

who sell or ship building supplies to competitors of the respondent dealers.

The order also directs the respondents to cease and desist, through combination, agreement, or understanding from causing, inducing and procuring, by promises, threats, coercion, intimidation, and otherwise, manufacturers and sellers of building supplies:—(1) Not to sell or ship building supplies to competitors of the respondent dealers or directly to consumers of building supplies; (2) to boycott competitors of the respondent dealers and consumers of building supplies; and (3) to confine to the respondent dealers such manufacturers' and sellers' sales and shipments of building supplies intended for use, consumption, or resale in Milwaukee county and other Wisconsin counties.

## Plastic, Coldwater Paint Calcimine Sales Mixed

Sales of plastic and cold-water paints and calcimines reported by sixty manufacturers to the Bureau of Census for October, 1940, were as follows:—

**Plastic Paints**

| | Pounds. | Value. |
|---|---|---|
| Paste | 170,731 | $18,935 |
| Dry, casein bound | 328,210 | 21,673 |
| glue bound | 135,245 | 6,961 |
| Totals | 634,186 | $47,569 |

**Cold-Water Paints**

| | Pounds. | Value. |
|---|---|---|
| Exterior, lime or cement-bound | 1,203,599 | $77,295 |
| casein bound | 308,363 | 16,756 |
| Interior, casein - bound, paste or semi-paste form | 293,538* | 301,784 |
| dry-powder form | 1,080,187 | 78,707 |
| glue-bound | 283,461 | 7,773 |
| Totals | ..... | $482,315 |

* Gallons.

**Calcimines**

| | Pounds. | Value. |
|---|---|---|
| Hot water | 2,715,713 | $104,756 |
| Cold water | 2,562,558 | 112,898 |
| Totals | 5,278,271 | $217,654 |

Sales of these products for October compared with the corresponding period of 1939 were as follows:—

| | 1940. | 1939. |
|---|---|---|
| Plastic paints.....lbs. | 634,186 | 554,403 |
| value. | $47,569 | $40,153 |
| Cold-water paints..value. | $482,315 | $449,407 |
| Calcimines .....lbs. | 5,278,271 | 5,940,006 |
| value. | $217,654 | $232,765 |

## Trigg to Attend N.Y. Paint Club Christmas Party Dec. 12

Ernest T. Trigg, president of the National Paint, Varnish and Lacquer Association, will be guest of honor at the annual Christmas party of the New York paint club to be held December 12 in the Hotel Biltmore.

## Naval Stores Output Dropped in April.-Sept.

Production of gum and wood turpentine in the United States in the period April 1 to September 30, 1940, amounted to 350,192 barrels of 500 pounds gross each, compared with 354,702 barrels in the same period last year. Production of gum and wood rosin totaled 1,296,119 barrels, against 1,337,804 barrels of 500 pounds gross in the corresponding period last year.

The official report was prepared jointly by the Bureau of Chemistry and Soils, Department of Agriculture, and the Bureau of Foreign and Domestic Commerce. C. F. Speh represented the Bureau of Chemistry and Soils in this work. J. E. Lockwood, of Savannah, again assisted in the correction and compilation of the statistics for the report.

### Supply and Distribution

| | Turpentine. Apr.-Sept., 1940. Barrels of 50 gals. | Rosin. Apr.-Sept., 1940. Barrels of 500 pounds gross. |
|---|---|---|
| Carryover April 1 | 220,267 | 1,569,396 |
| Production | 350,192 | 1,296,119 |
| Imports | 11,008 | ..... |
| Available supply | 581,467 | 2,865,515 |
| Less carryover Sept. 30 | 247,539 | 1,838,945 |
| Apparent total consumption | 333,928 | 1,026,570 |
| Less exports | 67,742 | 305,789 |
| Apparent U.S. consumption | 266,186 | 720,781 |

### Productions and Imports

| | Turpentine. | Rosin. |
|---|---|---|
| Gum | 247,497 | 803,904 |
| Wood | 76,881 | 476,127 |
| Imports | 11,008 | ..... |
| Totals | 335,386 | 1,280,121 |

### Carryover Stocks

| | Turpentine. | Rosin. |
|---|---|---|
| Carryover April 1 | 220,267 | 1,569,396 |
| Carryover September 30 | 247,539 | 1,838,945 |
| Stock increase | 27,272 | 269,549 |

### Location of Carryover Stocks

| | Turpentine. | Rosin. |
|---|---|---|
| Gum stills | 20,320 | 60,550 |
| Southern ports and interior yards | 136,553 | 1,356,697 |
| Wood plants | 28,354 | 111,961 |
| Distributing points | 47,505 | 19,168 |
| Industrial plants | 14,807 | 290,569 |
| Total in U.S. | 247,539 | 1,838,945 |

### Consumption by Industries

| | Turpentine. Barrels of 50 gals. | Rosin. Barrels of 500 pounds. |
|---|---|---|
| Abbatoirs | ... | 317 |
| Adhesives and plastics | 121 | 8,295 |
| Asphaltic products | ... | 698 |
| Automobiles and wagons | 276 | 294 |
| Chemicals and pharmaceuticals | 1,628 | 91,757 |
| Estergum and synthetic resins | ... | 61,318 |
| Foundries and foundry supplies | 382 | 3,854 |
| Furniture | 258 | 8 |
| Insecticides and disinfectants | 205 | 2,200 |
| Linoleum and floor covering | 30 | 18,274 |
| Matches | ... | 2,759 |
| Oils and greases | 47 | 14,273 |
| Paint, varnish and lacquer | 25,888 | 78,755 |
| Paper and paper size | ... | 166,296 |
| Printing ink | 86 | 6,460 |
| Railroads and shipyards | 2,968 | 1,322 |
| Rubber | 108 | 2,929 |
| Shoe polish and shoe materials | 5,584 | 3,868 |
| Soap | 7 | 96,403 |
| Other industries | 498 | 2,771 |
| Total industrial reported. | 52,719 | 562,851 |
| Not accounted for* | 213,467 | 157,930 |
| Apparent U.S. consumption | 266,186 | 720,781 |

* Principally unreported distribution of turpentine through retailers who sell in small quantities to ultimate consumers, and unreported industrial consumption of rosin; also rosin distributed through retailers who sell in small quantities to ultimate consumers.

# Oils, Fats, and Waxes

**Narrow Changes in Cottonseed Oil and Lard Futures — Hog Receipts Continue Large—Further Advance in Olive Oil and Foots—Soybeans Irregular—Business Quiet**

Quieter conditions prevailed in miscellaneous oils, fats and greases last week, but the ruling tone was firm, the price trend still being upward although there were fewer changes. Cottonseed oil and lard futures had a reactionary tendency at times and this fact together with more or less disturbing war news from abroad and uncertainty concerning new tax and other legislation at home made consumers of oils and fats disposed to limit their takings to small lots to fill current needs, the movement of such quantities for the week apparently being lighter than in the previous period. On the other hand offerings of many domestic and imported products were small. In the case of commodities of foreign origin there was no increase in offerings for arrival from abroad and there appeared to be little prospect of any material change in the situation in this respect in the near future.

## Vegetable Oils

**Castor, Dehydrated.** — Quotations stationary. Tone firm. Business fairly active.

**Chinawood.**—Better inquiry in some quarters. Primary situation reported firm. Local prices maintained. Arrivals here last week, 54 drums from Hongkong.

**Coconut.** — Crude unchanged. Inquiry light. Refined in fair demand and steady.

**Corn.** — Crude offerings remained light. Market steady though quiet. Refined demand fair.

**Cottonseed.**—Edible quotations unaltered. Business fairly active.

**Oiticica.**—Prices steady. Offerings light, spot and futures. Fair inquiry.

**Olive.**—Good inquiry for denatured and edible. Offerings limited. Nominal quotations 10c. higher. Foots up ¼c. Fair demand.

**Palm.**—Offerings light, spot and shipment. Quotations nominal. Inquiry quiet.

**Peanut.**—Crude and refined in fair request. Offerings light. Tone steady.

**Perilla.**—Quotations generally nominal. Stocks light. Inquiry slow.

**Rapeseed.**—Refined oil quiet. Stocks light. Tone firm.

**Soybean.**—Increased movement to domestic buyers. Export inquiries reported. Market firm.

**Teaseed.**—Stocks small. Quotations nominal. Buying interest slow.

Trading in soybean oil futures on the New York Produce Exchange from November 23 to November 29, inclusive, comprised 4 contracts, a total of 240,000 pounds. Following is a price record for the week:—

| | Cents per pound in tanks | | |
|---|---|---|---|
| | High. | Low. | Close. |
| May | 4.65 | 4.65 | 4.53@4.78 |
| December | 4.65 | 4.65 | 4.45@4.75 |

### Markets at Other Centers

**San Francisco,** Nov. 27.—Demand for vegetable oils is moderate.

COCONUT.—Sales at 2⅜c. per pound in tankcars, f.o.b. Pacific Coast ports and/or mills. Sellers generally asking 2½c. Copra, 1.45c.

CHINAWOOD. — Quoted 25½c. per pound in tankcars, f.o.b. San Francisco.

OITICICA.—Raw, liquid oil, 19c. per pound in drums.

COTTONSEED. — Domestic bleachable oil, 5½c. per pound in tankcars, f.o.b. Northern California mills.

PERILLA.—Quoted 16½c. per pound in tankcars, duty paid, f.o.b. San Francisco.

SESAME.—Crude oil, 7¼c. per pound in tankcars, f.o.b. San Francisco.

**Chicago,** Nov. 29.—Vegetable oils quiet.

COCONUT.—Crude, Pacific Coast, November-forward, 2⅜c. to 2½c. per pound. Refined, edible oil, 7¼c. to 7½c. per pound, drums, car lots; and 8c. to 8¼c., drums, less than car lots.

CORN.—Crude, low acid, 5½c. to 5⅝c. per pound. Refined, edible oil, 8c. to 8¼c. per pound, drums, car lots; and 8½c. to 8¾c., drums, less than car lots.

PEANUT.—Crude, South, 5c. to 5⅛c. per pound.

### Price Changes

**Advanced**

Lard oil, ¼c. to ½c. per lb.
Neatsfoot oil, ¼c. to ½c. per lb.
Olive oil, 10c. per gal.
Olive oil foots, ¼c. per lb.
Tallow oil, ¼c. per lb.

**Reduced**

Lard, 10c. to 25c. per 100 lbs.

### Comparative Values

Index numbers compiled from twenty-three typical oils, fats and greases on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| **100.3** | **100.2** | **95.8** | **103.6** |

Market news that may have developed after this report was sent to press will be found on page 4.

SOYBEAN.—Crude, 4½c. to 4¾c. per pound.

The market for soybeans on the Chicago Board of Trade was active. Following is a soybean price record, per bushel, for the week:—

| | High. | Low. | Closing Nov.29. | Closing Nov.22. |
|---|---|---|---|---|
| Cash, No. 2 | $1.00 | .99 | $1.00 | .... |
| December | 1.01¼ | .95¼ | .99⅝ | .95⅝ |
| May | 1.00 | .94¾ | .96½ | .95¼ |

## Linseed Oil

Flaxseed prices irregular. Linseed oil, cake and meal steady. Arrivals of flaxseed at New York last week 205,746 bushels; also a quantity, no weight given.

**Flaxseed**—DULUTH, Nov. 29.—Small marketings and brisk demands for late lake shipments helped the flax market. Now with the end of the lake season virtually here, it is expected that demand will quiet down. Supplies increased to 1,539,000 bushels compared to 1,046,000 bushels last year.

The week's closing price range was as follows:—

| | | |
|---|---|---|
| Saturday | $1.64 | $1.69½ |
| Monday | 1.62¾ | 1.57¾ |
| Tuesday | 1.61½ | 1.56½ |
| Wednesday | 1.62¼ | 1.57¼ |
| Thursday | 1.63 | 1.58 |
| Friday | 1.61 | 1.58 |

Crop movement in bushels follows:—

| | Receipts 1940. | Receipts 1939. | Shipments 1940. | Shipments 1939. |
|---|---|---|---|---|
| This week | 298,064 | 178,703 | 1,022,078 | 47,800 |
| Since Aug. 1 | 5,695,644 | 4,166,944 | 3,602,682 | 2,726,393 |

MINNEAPOLIS, Nov. 29.—Feature of the moment in the cash flax market is the endeavor to get supplies down the lakes before the close of navigation. Today Duluth loaded out 803,000 bushels of flax for movement to lower lake ports and in the past few days crushers have withdrawn liberal supplies from local storage to move to Duluth for loading. Day to day offers from the country have been light recently. Crushers were hopeful of a freer movement when roads were clear and elevator yards put in order but apparently farmers have no desire to sell.

Demand for diversion point flax is good but loading of boats will probably end this week because of cold weather.

The week's closing price range was as follows:—

| | Cash. | Dec. | May. |
|---|---|---|---|
| Saturday | $1.64 | $1.59 | $1.62 |
| Monday | 1.62¾ | 1.57¾ | 1.60½ |
| Tuesday | 1.61½ | 1.57¾ | 1.60½ |
| Wednesday | 1.62¼ | 1.57½ | 1.60¼ |
| Thursday | 1.63 | 1.58 | 1.61 |
| Friday | 1.63 | 1.58 | 1.61 |

Crop movement in bushels follows:—

| | Receipts 1940. | Receipts 1939. | Shipments 1940. | Shipments 1939. |
|---|---|---|---|---|
| This week | 81,200 | 37,800 | 224,000 | 77,000 |
| Since Sept. 1 | 7,509,300 | 3,356,800 | 1,035,200 | 1,447,850 |

WINNIPEG, Nov. 29.—The week's closing flaxseed price range was as follows:—

| | Cash. | Dec. | May. |
|---|---|---|---|
| Saturday | $1.28⅝ | $1.29 | $1.33⅝ |
| Monday | 1.29½ | 1.29⅝ | 1.33⅞ |
| Tuesday | 1.31¼ | 1.31½ | 1.36 |
| Wednesday | 1.31¼ | 1.31½ | 1.36⅝ |
| Thursday | 1.31¼ | 1.31⅝ | 1.35⅞ |
| Friday | 1.30½ | 1.30¼ | 1.34½ |

BUENOS AIRES, Nov. 29.—Flaxseed, December, 69⅞c. per bushel. Exports this week 386,000 bushels to United States; 118,000 to United Kingdom; total 504,000 bushels. Total since January 1, as follows:—

| To— | Bushels This year. | Bushels Last year. |
|---|---|---|
| United States | 11,731,000 | 13,060,000 |
| United Kingdom | 6,065,000 | 2,220,000 |
| Continent | 11,856,000 | 23,059,000 |
| Orders | 606,000 | 8,137,000 |
| Others | 1,198,000 | 2,587,000 |
| Totals | 31,456,000 | 49,063,000 |

**Visible Supply**

| | Bushels. |
|---|---|
| Last week | 3,740,000 |
| Previous week | 3,937,000 |
| Last year | 1,575,000 |

**Linseed Oil.**—A steady tone prevailed in the local market for linseed oil last week. Changes in flaxseed quotations were narrow and oil prices were generally maintained at former levels. There were reports of some increase in the volume of inquiries received but actual business was apparently limited to unimportant quantities. The movement to consumers and dealers on unfilled contracts was steady and advices from outside points reported liberal shipments on orders previously placed, withdrawals being sufficient to prevent any accumulation of supplies at the mills, although plants were said to be operating at capacity. Demand for cash flaxseed in Northwestern markets was good and cash premiums were maintained. The country movement was light and below expectations and the indications were said to point to a small movement during the remainder of the season. There was nothing new in

**Current prices on animal, vegetable, and fish oils (under Oil), fats, and greases (under Grease) are given in the alphabetical list of prices beginning on page 7**

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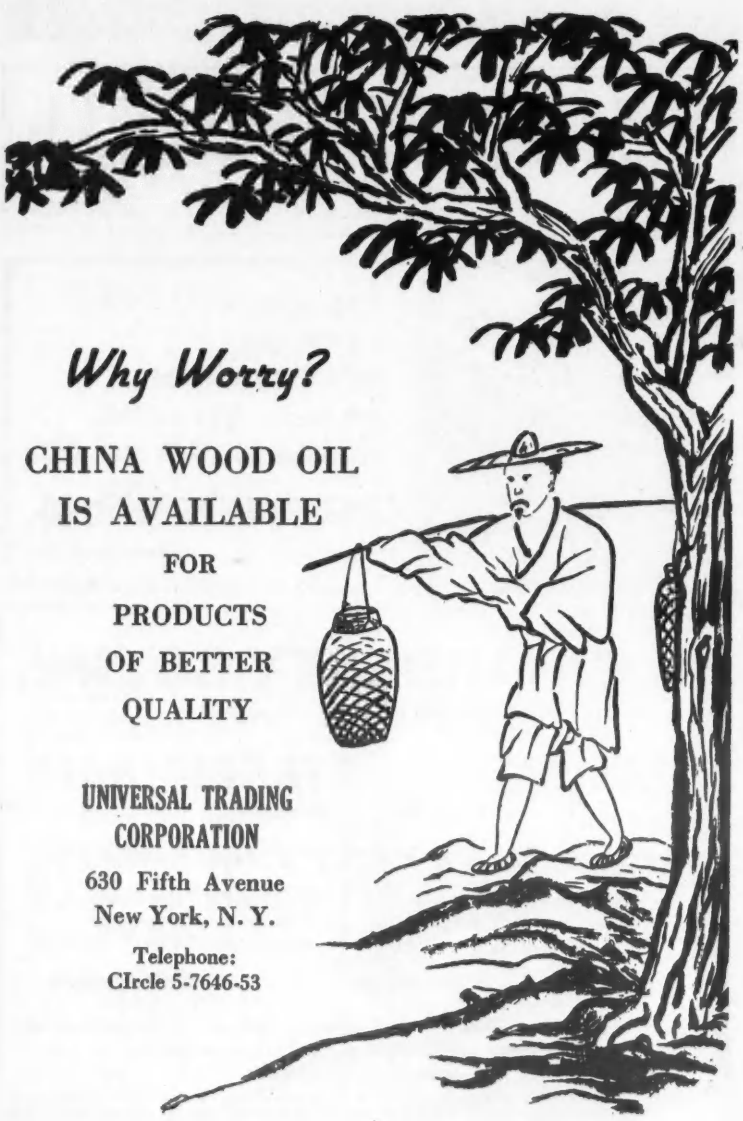

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the way of crop advices from Argentina where the crop is now in its critical stage. An official government crop report will be issued by the Argentina government about the middle of next month.

MINNEAPOLIS, Nov. 29.—Linseed oil buyers still picking up some fill-in lots for fairly near shipment. There is spasmodic buying of tank and round lots for shipment up to June 1. Shipping instructions very good.

Quotations on carload lots, f.o.b. Minneapolis, tankcars, 7.9c. per pound; cooperage, cars, 8.5c. per pound; warehouse lots, 8.9c. per pound.

Shipments of oil in pounds were as follows:—

| | 1940. | 1939. |
|---|---|---|
| This week | 3,300,000 | 1,440,000 |
| Since Sept. 1 | 46,300,000 | 40,320,000 |

**Cake and Meal.**—Meal was unchanged with a steady movement noted. Cake dull and nominal.

MINNEAPOLIS, Nov. 29.—Meal demand good and tone of market firm. Failure of soybean mills to obtain supplies of beans from farmers is the main influence in the market and puts the job of supplying requirements of high concentrates up to the linseed crusher.

Quotations on carload lots, f.o.b. Minneapolis, 100-pound sacks, $29 to $30 per ton.

Shipments of meal in pounds were as follows:—

| | 1940. | 1939. |
|---|---|---|
| This week | 9,200,000 | 4,640,000 |
| Since Sept. 1 | 95,161,000 | 59,920,000 |

SAN FRANCISCO, Nov. 27.—Further linseed oil sales at 8c. in tankcars, some contracts running through June. Quoted:—Tankcars, 8.1c. per pound; drum car lots, ex-mill, 8.7c.; drum lots, ex-warehouse, 9.1c.

## Cottonseed Oil

Refined oil futures were quieter. Prices irregular within narrow limits. Southern markets for cottonseed products generally steady or firm.

**Cottonseed Oil.**—Speculative operations in refined oil futures in the local market were on a comparatively small scale much of the time last week and fluctations in prices, though frequent were correspondingly narrow. Sentiment among some local and outside traders appeared to be less bullish than recently for the time being at least and there was a disposition to curtail operations and await further developments. Local and other trade interests made purchases on soft spots. Selling of a hedging character was noted on upturns. Commission houses were on both sides of the market in a limited way. Switching from near to distant months were something of a feature. December was switched to May at 23 points difference and to July at 28 to 29 points. March was switched to May at 8 points difference and to July at 13 points. The open interest in the market on November 20 was 2690 contracts, showing a small increase within a week.

Southern markets for crude oil were generally steady. Seed prices remained high and offerings of crude oil continued light. Soybeans were irregular in the Chicago market, changes being sharp at times, but soybean oil prices were generally maintained at recent levels although there were reports at times of offerings from smaller producers at concessions. Demand for cash refined cottonseed oil was said to be holding up well at generally firm prices. An improved demand for shortening was noted in some quarters. Domestic trade in lard was fairly active but the export movement continued light. Clearances of lard from Atlantic and Gulf ports for foreign destinations from November 1 to November 23 were only 1,126,400 pounds, or nearly 7,000,000 pounds less than in the same time last season. Coconut oil was reported a shade easfer on the Pacific Coast.

Marketing of hogs continued rather heavy and at times the trend of lard futures was downward although

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changes were not very wide. Receipts of hogs in the principal Western centers for four days of the week aggregated 453,800 head against 336,300 head in the same time last year. The weight of the hogs received in Chicago during the week ended November 23 averaged 221 pounds against 225 pounds in the previous week and also 225 pounds in the same week last year. The quantity of cotton ginned for the season to November 14 was stated at 10,071,658 bales against 10,682,457 bales in the corresponding period last season.

Trading in bleachable prime Summer yellow cottonseed oil futures on the New York Produce Exchange from November 23 to November 29, inclusive, consisted of 442 contracts, a total of 26,520,000 pounds. Following is a price record for the week:—

| | Cents per pound in tanks | | |
|---|---|---|---|
| | High. | Low. | Close. |
| January | 5.92 | 5.89 | 5.81@5.84 |
| March | 6.02 | 5.91 | 5.91@5.94 |
| May | 6.12 | 5.99 | 6.00@6.01 |
| July | 6.16 | 6.06 | 6.06@6.08 |
| September | 5.87 | 5.76 | 5.77@5.80 |

Crude, Southeast, .04¾c. Nom.

**Chicago, Nov. 29.**—Cottonseed oil quiet. Refined, edible oil, 7½c. to 8c. per pound, drums, car lots; 8¼c. to 8½c., less car lots.

**Cake and Meal.**—Quotations were apparently well maintained in all parts of the South. A fairly steady demand was reported for meal.

### Markets at Other Centers

**Atlanta, Nov. 27.**—Cottonseed meal, 8 percent, $30.50 to $31 per ton, mill points. Crude oil, 4¾c. to 4⅞c. per pound.

**Memphis, Nov. 29.**—Cottonseed products generally steady or firm. Closing cottonseed meal quotations on the Memphis exchange were as follows:—

| | Nov. 20. | Nov. 28. |
|---|---|---|
| December | $28.50@28.75 | $28.75@29.00 |
| January | 28.00@— | 27.75@28.10 |
| March | 27.10@— | 27.15@27.25 |
| May | 26.75@— | 26.75@27.00 |
| July | 28.60@28.80 | 26.40@26.75 |

## Fatty Acids

**Capric Acid.**—Quotations steady at previous levels. Fair request for moderate quantities.

**Castor Oil.**—Prices generally unchanged. Market tone firm. Business fairly active.

**Coconut Oil.**—Consumers purchasing for current needs only. Quotations stationary.

**Cottonseed Oil.** — Buying interest stimulated by recent developments in crude material.

**Lauric Acid.**—Purchasing continued along conservative lines. Prices steady.

**Palm Oil.**—Fair movement of moderate lots. Market tone steady.

**Red Oil.**—Firm in company with raw material. Trade fairly active.

**Soybean Oil.**—Increased movement to local and outside consumers. Market firm.

**Stearic Acid.**—Demand for moderate quantities showed improvement. Tone remained firm.

**Tall Oil.** — Steady contract movement. New business fairly active. Market steady.

**Chicago—Nov. 29**

Demand for various grades of fatty acids continues quite good.

RED OIL.—Distilled or saponified, tanks, 6¼c. per pound.

STEARIC ACID.—Distilled, single press, 9c. to 10c. per pound; double press, 9½c. to 10c.; triple press, 12¼c. to 13¼c.

OTHER FATTY ACIDS.—Corn oil, double distilled, 8¼c. to 8½c. per pound, tankcar; coconut oil, acidulated, 9¼c. to 9½c. per pound, tankcar; cottonseed oil, double distilled, 7¼c. to 7½c. per pound, tankcar; settled cottonseed soap stock, 60-62 percent basis, 2⅝c. to 2¾c.; boiled down soap stock, 65 percent basis, 3⅝c. to 3¾c.; cottonseed foots, 50 percent basis, 1⅜c. to 1½c.

## Fish Oils

**Cod.**—Offerings from Newfoundland continued light. Local inquiry slower. Market steady.

**Menhaden.**—Refined oil quotations stationary. Tone firm. Fair inquiry for moderate lots.

**Sardine.** — Crude reported stronger on Coast. Refined oil firm here. Business quieter.

**Sperm.** — Moderate movement on contracts. New business quieter. Prices unchanged.

**Whale.** — Consumers of refined oil purchasing for current needs only. Quotations steady.

### Markets at Other Centers

**San Francisco, Nov. 27.**—California's sardine oil production was further curtailed last week, the large schools of fish having disappeared. Oil sold in the South yesterday at 41½c. per gallon in tankcars, although northern California producers were selling in small quantities at 40c. Bids this morning of 40c. were not taken up owing to lack of oil.

Production is far behind last year, the reports of the California Sardine Products Institute show. Fish tonnage caught and turned in to the plants up to November 22 amounted to 181,878 tons against 271,279 tons a year ago. It is considered that the potential production this season is close to being sold out, if not actually oversold already.

**Baltimore, Nov. 27.**—Crude menhaden oil quiet, buyers and sellers being disposed to hold aloof. Last sales reported at 30c. but sellers would probably demand more now. Chesapeake Bay supplies closely cleaned up. North Carolina fishing companies have probably sold more oil than has been produced thus far and are not seeking new business.

## Fats and Greases

**Grease.**—More active. Market firm. Spot stocks light or moderate.

CHICAGO, Nov. 29.—Choice white grease, 4½c. to 4⅝c. per pound; yellow, 3⅞c. to 4⅛c.

**Lard.** — Domestic trade improved. Export movement light. Price changes narrow. Hog marketing heavy.

CHICAGO, Nov. 29.—Following is a lard price record, per 100 pounds, for the week:—

| | | | Closing | |
|---|---|---|---|---|
| | High. | Low. | Nov.29. | Nov.22. |
| Cash | $4.77 | $4.57 | $4.57 | $4.77 |
| December | 4.80 | 4.47 | 4.52 | 4.80 |
| May | 6.27 | 6.07 | 6.15 | 6.27 |

**Stearin.** — Offerings light. Market steady. Inquiry reported better.

CHICAGO, Nov. 29.—Prime oleo stearin, 5¾c. to 6c. per pound; lard stearin, 6c. to 6¼c.

**Tallow.** — Increased sales reported here and outside markets. Local tone firm.

*—Continued on page 62*

### Soap Industry Being Established in East Africa

The availability of large and cheap supplies of oilseeds has given rise to the establishment of vegetable oil extracting and soap industries, according to Department of Commerce. A plant was constructed for the extraction of the vegetable oils, and several factories for the production of soap. The largest of the soap factories in Portuguese East Africa is located at Lourence Marques, and the entire output is consumed locally. Production of soap totalled 2,309,000 kilograms in 1938, the latest year for which statistics are available. In addition to the local production, soaps, other than toilet soap, were imported in the same year to the extent of 414,102 kilograms valued at $39,586.

### Foots from Exported Oils Dutiable When Imported

*OPD Washington Bureau*
*November 26, 1940*

Beginning December 28, imports of cottonseed oil foots and soybean oil foots produced by the processing of American oils abroad will be assessed at 7½ percent ad valorem, the Commissioner of Customs has announced.

At present the products are free from duty as American goods returned from abroad. The Bureau of Customs decided that cottonseed and soybean oil foots were properly dutiable as waste under the 1930 tariff act.

### Spencer Kellogg Disposing Of 'Export' Oilcake as Meal

Howard Kellogg, president of Spencer Kellogg & Sons, Buffalo, in his report to stockholders for the fiscal year ended August 31 stated that the war has closed the company's market for oilcake in Holland and Belgium and that the company is now disposing of this material as oil meal to United States farmers. The company showed a net profit for the fiscal year of $1,395,200, agaginst $662,481 in the fiscal year ended September 2, 1939.


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MONTREAL — Pigment & Chemical Co.
PHILADELPHIA — Geo. A. Rowley Co.
PITTSBURGH — J. C. Ackerman
ST. LOUIS — Nolte Brokerage Co.
TORONTO — Harrisons & Crosfield (Canada) Ltd.
WASHINGTON, D. C. — Manufacturers Service Bureau
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*Warehouse Stocks at* CHICAGO — CLEVELAND — LOS ANGELES — OAKLAND, CALIF. — SAN FRANCISCO — SEATTLE

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**Fineness: Powder, 100 mesh.**

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# Drugs, Fine Chemicals

**Ethyl and Denatured Alcohol Higher — Quicksilver Prices Give Ground on Lag in Demand—Mercurials Hold —Ethyl Acetate Up — Demand Good**

The price feature in the market for drugs and fine chemicals last week was an advance in quotations on pure ethyl, specially denatured, completely denatured, and proprietary solvent alcohol. The rise was 1c. per gallon, was effective December 1, and applied on all business through the first quarter of 1941. Ethyl acetate was raised ½c. Quicksilver was cheaper due to the lag in demand that continued the principal depressent on prices.

Higher production costs have developed in the alcohol distilleries and have at last forced a rise in price that was clear evidence of the substantially firm position of the market and marked the presence of good demand from industrial users. A check on blackstrap molasses prices revealed them unchanged.

Tartar products were fully as strong as ever and the market position seemed destined to remain unchanged for so long as war in Europe shall shut off all shipments of crude tartar from the continent. Demand for tartar products was fully normal.

Mercurials were slightly easier in undertone, a reflection of the lower cost of quicksilver. However, no change was made in the price schedule on mercurials. Bismuth salts came in for good request. There was some talk about possible production of salts direct from bismuth ore, possibly in Peru for export to this country but more likely here.

**Acid, Acetylsalicylic.** — Demand steady and sturdy. Prices firm.

**Acid, Boric.**—Stabilized and in excellent demand.

**Acid, Citric.**—Quiet to dull. Volume entirely seasonal.

**Acid, Fumaric.**—Low prices stimulate inquiry by new users.

**Acid, Gallic.**—In routine request but very firm.

**Acid, Gluconic.**—Excellent movement. Prices steady and unchanged.

**Acid, Lactic.** — Needs normal and fully supplied at steady prices.

**Acid, Mandelic.**—More inquiry in very steady market.

**Acid, Nicotinic.**—Consumption expanding. Prices attractive.

**Acid, Phosphoric.**—U.S.P. grade selling steadily. Quotations steady.

**Acid, Pyrogallic.**—Good call for photographic quality.

**Acid, Salicylic.**—Firm to steady. Movement normal. Fully stabilized.

**Acid, Tannic.**—U.S.P. moving normally. Very steady consumption.

**Acid, Tartaric.**—Strong position on acid and raw material. Prices high. Offerings conservative. Demand good.

**Agar.**—Strength undiminished. Sustained demand for moderate quantities. Replacement firm.

**Alcohol.**—Prices on pure ethyl, and specially and completely denatured material advanced 1c. Dec. 1. S. D. No. 1, tanks, 24½c. per gallon; S. D. 2B, 22½c., tanks; S. D. 23G, 28½c., tanks, special solvent, 25½c., tanks; ethyl, $5.94½. Advance due to higher production cost. Change effective December 1 on business, through first quarter, 1941.

**Aloin.**—Strong at late advance. Demand normal. Production cost high.

**Amyl Acetate.**—No price change. Market steady. Call about normal.

**Atropine.**—Stocks low. Prices strong. Replacement hampered by raw material supply.

**Barbital.**—Activity normal. Quotations steady. No signs of unsettlement.

**Bay Rum.**—Moderate stocks turn prices firmer.

**Bismuth Metal and Salts.** — Talk heard of making salts direct from ore. Suggested production may take place in Peru and salts exported to this market.

**Borax.**—Activity excellent. First half 1941 contracts well booked. Stabilized prices.

**Caffeine.** — Strong and growing stronger. Talk of higher prices. Home requirements being met. No surplus supply.

**Calcium Bromide.** — Narrow but steady market at firm prices.

**Calcium Gluconate.**—Well stabilized prices meet fair request.

### Price Changes

**Advanced**

Alcohol, ethyl, 1c. per gal.
specially denatured, 1c. per gal.
special solvent, 1c. per gal.
completely denatured, 1c. per gal.
Ethylacetate, ½c. per lb.

**Reduced**

Quicksilver, $2 per flask.

### Comparative Values

Index numbers compiled from thirty-five typical drugs and fine chemicals on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 203.3 | 203.3 | 202.5 | 194.4 |

Market news that may have developed after this report was sent to press will be found on page 4.

**Calcium Glycerophosphate.** — Trade at seasonal limits. Steady market.

**Calcium Hypophosphite.**—Slight rise in inquiry and sale.

**Calcium Sulphocarbolate.** — Interest normal. Very steady market.

**Castor Oil.**—Steady to firm. Movement holding up well. Outlook good.

CHICAGO, Nov. 27.—Castor oil prices are:—Cold pressed, U.S.P., barrels, car lots, 10⅝c. per pound; barrels, less than car lots, 11⅜c.; returnable drums, car lots, 10⅜c.; drums, less than car lots, 11⅛c.; tanks, 9⅞c.; extracted, No. 3, barrels, car lots, 10⅛c.; barrels less than car lots, 10⅞c.; returnable drums, car lots, 9⅞c.; drums, less than car lots, 10⅜c.; tanks, 9⅜c.

**Chloroform.**—Quiet, steady demand. Firm, well supported prices.

**Chrysarobin.**—Stocks limited. Not much call.

**Cinchophen.** — Normal movement tends to broaden. Steady undertones.

**Cocoa Butter.**—Spot and nearby's scarce. Quoted 13c., spot or December.

**Collodion.**—Call irregular but about normal in volume.

**Corn Syrup.**—Movement sustained well. Quoted very steady.

**Cream of Tartar.**—Demand unchanged. Prices still show strength.

**Emetine.**—Raw material still easy. Emetine steady.

**Ephedrine.**—Seasonal rise in new orders. Prices low and steady.

**Epsom Salt.**—Inquiries mount moderately. Undertone very firm.

**Eserine.**—Reserves moderate. No price shading.

**Ethyl Acetate.**—All grades up ½c. Market 10c., N.F., grade. Due to higher production cost.

**Formaldehyde.**—Excellent call from wholesalers and distributors.

**Glycerin.**—Steady consumption of adequate production. Prices firm and well stabilized. Signs of early change absent.

CHICAGO.—Nov. 27.—Glycerin prices

**Current prices on drugs and fine chemicals are given in the alphabetical list of prices beginning on page 7**

**Association meetings:—**
*Pharmaceutical Mfrs. Ass'n, Dec. 9-10, Washington, D. C.*

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are:—Chemically pure, 12¼c. per pound, tanks; 12½c. drums, car lots; 13c.; drums, less than car lots; high gravity, 11¾c. per pound, tanks; 12c., drums, car lots; 12½c., drums, less than car lots.

**Guaiacol.**—Seasonal demand excellent. Some say ahead of last year. Prices firm and fully supported.

**Hexamethylenetetramine.** — S m a ll lot busines good. Contract buyers reach normal consumption. Undertone very steady.

**Hydrastinine.**—Scarce. Sellers restrict sales. Prices almost nominal.

**Iodine and Iodides.**—Business good. Fully normal. Undertones firm.

**Iron Acetate.**—N.F. item firm and well stabilized.

**Iron Chloride.**—U.S.P. stabilized. Demand moderate and rather quiet.

**Iron Glycerophosphate.**—Normal interest shown. Undertone steady.

**Iron Hypophosphite.**—Call light and irregular. Quotations steady.

**Iron Sulphate.**—U.S.P. quiet but steady. Demand mainly jobbing.

**Magnesia.**—Movement good and well sustained. Steady prices rule.

**Magnesium Hydroxide.** — Medicinal grade normally active and steady.

**Manganese Glycerophosphate.**—Price stability undisturbed. Call normal.

**Mercurials.**—Slightly easier undertones without change in prices.

**Methanol.**—Gains in less than car lot sales noted. Values firm.

**Methyl Acetone.**—Steady to firm. Natural item selling well.

**Methylethyl Ketone.**—Fairly steady. Call unsettled moderately.

**Molasses.** — Prices confirmed on blackstrap. Consumption excellent.

**Quicksilver.**—Easier and lower as demand fails to rise. Market around $168 per flask.

SAN FRANCISCO, Nov. 27.—Quicksilver firm. Quoted $168 per flask, f.o.b. spot. Lack of material more notable. Sellers disinclined to view future delivery on low discount basis in operation recently. Trade not heavy.

**Quinine.** — Quinine and cinchona bark controls in Netherlands East Indies assure of no shortage in supply. Japan has large consumption.

**Saccharin.**—Very steady. Consumption maintained at normal size.

**Salicin.**—Inquiry excellent and sales show gains.

**Salol.** — Routine market. Volume moderate. Prices firm.

**Santonin.**—Stronger. More activity expected.

**Seidlitz Mixture.**—Strong because of high production cost. Demand about normal.

**Silver Nitrate.** — The schedule of prices since the last report prevailed as follows, covering quantities of 100 ounces; small lots from 1c. to 2c. more per ounce and quantities of 500 ounces are quoted at about 1c. less. Comparison of prices of bullion in New York and London is also provided.

| | Per ounce | | |
|---|---|---|---|
| | | Bullion | |
| | Nitrate. Cents. | New York. Cents. | London. Pence. |
| Saturday | 26⅞ | 34¾ | 23⅛ |
| Monday | 26⅞ | 34¾ | 23⅛ |
| Tuesday | 26⅞ | 34¾ | 23⅛ |
| Wednesday | 26⅞ | 34¾ | 23 |
| Thursday | 26⅞ | 34¾ | 23 |
| Friday | 26⅞ | 34¾ | 22⅞ |

**Keto Chemical** Company has started operations in a new plant in Long Island city, manufacturing pharmaceuticals and chemical specialties.


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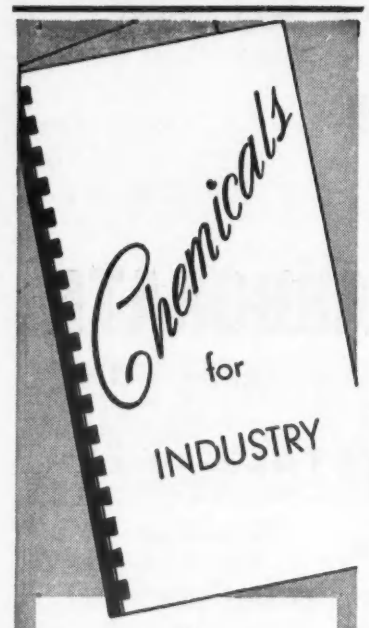


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## *DCAT Hears Tydings On Government Finance*

*—Continued from page 3*

tures are between eight billion and nine billion dollars. He urged that economies in government be effected to cut expenses and that the income tax base be broadened to increase the government's tax revenue.

Senator Tydings stated that the solvency of the country must be an accomplished fact, rather than a speculation, and warned that within a few years the thousands of persons who are today being employed in munition, aircraft, and other defense industries would have to be reabsorbed into other businesses and that the transition would produce another depression unless the country is in a sound economic position.

Senator Tydings was introduced by Dr. Robert L. Swain. J. J. Toohy, of E. R. Squibb & Sons, chairman of the section, presided.

## *N.Y. Drug-Chemical Section Elects Toohy*

*—Continued from page 3*

Vice-chairman, Rudolph F. Berls, of McKesson & Robbins, Inc.

Treasurer, Robert B. Magnus, of Magnus, Mabee & Reynard, Inc.

The secretary of the section is John C. Ostrom, 44 Park row, New York.

The nominating committee made an error in the list of members of the executive committee presented for election by the section November 19. The name of Herbert R. Prior was given instead of H. B. Prior, also of the Prior Chemical Corporation, who was the nominee and was elected.

"Jack" Toohy, the new DCAT chairman, is a New Englander. He was born and grew up in Cambridge, Mass., attended Cambridge Latin School, took two degrees at Harvard where he majored in organic chemistry. His graduate work in research in organic chemistry was done under Prof. James Bryant Conant, now president of Harvard University.

Mr. Toohy joined E. R. Squibb & Sons in 1922 immediately upon leaving school. After six months in the laboratories where he served an apprenticeship in manufacturing processes, he was assigned duties in connection with the distribution of Squibb products. From 1924 to 1929 he was successively manager of Squibb branches in Kansas City, Atlanta (which he organized), and Chicago. Returning to New York in 1929, he became manager of all branch offices. Two years later he was transferred to the sales department as assistant to R. D. Keim and since then has been actively associated with the Squibb sales organization at its headquarters in New York. In September, 1939, he was appointed manager of distribution, responsible for the Squibb customer relations program and its attendant policies and problems.

## *Clough Tells Defense Role of Drug Industry*

*—Continued from page 3*

also the Chemical Advisory Committee, both of which are now a part of the Commodity Division of the Army and Navy Munitions Board cooperating with the National Defense Commission in the study of strategic, critical, and essential medical supplies and chemical materials. Surveys are being made of medicinal chemicals, botanicals used in medicine, pharmaceuticals, biologicals, vitamin oils, glandular substances used in medical practice, bandages, dressings, and hospital supplies.

Such progress have already been made that it is certain the mistakes made in the World War of 1917 and 1918 will not again be repeated. The far-flung facilities of the American drug and chemical industry are ample to take care of not only civilian needs but also of any military requirements which may arise. America is less dependent on foreign sources for its chemicals than in 1918; in fact, our drug and chemical industry is already assisting other nations with medical supplies and is cooperating closely with the American Red Cross, the Surgeon-General office, the army and navy, veterans' facilities, governmental health and medical agencies. The drug industry will be ready for any emergency.

## McQuaide Heads Domestic Sales for Jaynes & Sons

*Philadelphia, Nov. 29, 1940*

D. Jaynes & Sons, Inc., wholesale druggist, this city, has named C. C. McQuaide director of domestic sales. A long-time resident of Chicago, Mr. McQuaide has travelled extensively throughout the United States in connection with the drug trade.

**Abbott Laboratories** plans the erection of an addition to its Chicago plant, at a cost approximately $75,000.

**Cunningham Drug Stores,** Inc., Detroit, stockholders will vote December 2 on a proposal to approve reduction in authorized Class A prior preference stock and Class B preferred stock.


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# Botanical Drugs, Spices, and Gums

**Growing Scarcities Thrust Botanical Drug Prices Higher —Poverty of Supplies Becoming Acute—Entire World Scoured for Items Normally Supplied by Europe**

Constantly advancing prices and continuously decreasing stocks of imported botanical drugs was a renewed feature in the market last week. Such a trend of values and supply had been a component of the market for many weeks and it seemed altogether probable that said component would continue to exist for an indefinite period of time.

The decrease in unsold stocks of some botanicals has already brought prices to a nominal position in which is featured a lack of firm offerings and a refusal to quote other than on the basis of subject-to-confirmation.

The entire world is being combed for botanicals no longer obtainable with certainty of arrival from Europe. And some strange things are being turned up. For example, paprika is being offered from Chile. Fenugreek seed suddenly becomes available from domestic production on the Pacific Coast. Guatamala has cinchona bark arriving on this market. Pimento from Mexico makes its local debut. The island of Cyprus and Bulgaria are disposing of anise seed here. Tunis squeezes some marjoram through the blockade. Belladonna leaves reach here from Greece. These are but an indication of how local importers are neglecting no part of the world in their search for scarce items.

## Balsams

**Copaiba.**—Firm and reasonably active. No stock surplus.

**Fir.**—Growing firmer, especially Canadian material. Fair call for Oregon item.

## Barks

**Buckthorn.** — Almost unobtainable and strictly nominal in price.

**Cinchona.**—Advices from Dutch Netherlands Indies assures an adequate supply of this bark. Control of entire trade now centered in Far East. Guatamala shipping bark here.

**Sassafras.**—Moving well in seasonal quantities at firm prices.

**Wahoo.**—Root bark eased back to 40c. to 41c. per pound.

**Wild Cherry.**—Very good call. Gain in volume seasonal. Steady prices show tendency toward firmer position.

## Beans

**St. Ignatius.**—Firm. In moderate reserve. Limited demand.

**Vanilla.**—Not a sign of weakness. Replacement of small spot stocks uncertain. Lack of normal shipments from French islands increases interest in Mexican beans. Prices strong. Higher market not unlikely.

## Berries

**Hawthorn.**—Sold at 30c. to 35c. per pound. Position stronger.

**Raspberries.**—More active. Firmer prices. Less competition.

**Sumac.**—Firm at recent advance. Routine demand.

## *Imports and Detentions*

Entries of botanicals at the port of New York since the week of January 1, 1940, and the detention of these items by the Food and Drug Administration because of the presence of matter rendering them unfit for human consumption were:—

| | Bags Detained. | Bags Entered. |
|---|---|---|
| Anise | 662 | 2,689 |
| Belladonna | 105 | 394 |
| Caraway | 1,883 | 551 |
| Cardamom (cases) | ... | 2,302 |
| Celery | ... | 5,114 |
| Coriander | 2,889 | 18,712 |
| Cumin | 921 | 4,355 |
| Digitalis leaves (cases) | 1 | 1 |
| Dill | 86 | 1,081 |
| Fennel | 829 | 1,247 |
| Henbane leaves (bales) | 277 | 285 |
| Mustard | 2,800 | 6,073 |
| Poppy | 550 | 3,452 |
| Sage leaves (bales) | ... | 1,307 |
| Sesame | 5,454 | 12,027 |
| Stramonium | 121 | 8,049 |
| Thyme | 597 | 4,070 |

### Price Changes

**Advanced**

Belladonna root, 25c. per lb.
Catnep leaves, 1c. per lb.
Coltsfoot leaves, 10c. per lb.
Caraway seed, Dutch, 2c. per lb.
Celery seed, French, 2c. per lb.
Indian, 1¾c. per lb.
Coriander seed, Persian, 1c. per lb.
Dograss root, cut, 5c. per lb.
Elder flowers, bright, 5c. per lb.
Fenugreek seed, 1¼c. per lb.
Irish moss, ordinary, 3c. per lb.
bleached, prime, 3c. per lb.
powdered, 2c. per lb.
Henna, 10c. per lb.
Hawthorn berries, 4c. per lb.
Larkspur seed, 10c. per lb.
Liverwort leaves, 5c. per lb.
Lobelia herb, 2c. per lb.
Mace, Banda, ½c. per lb.
Mullein flowers, 45c. per lb.
Paprika, Bulgarian, ½c. per lb.
Pimento, 1½c. per lb.
Pulsatilla herb, 10c. per lb.
Peppermint leaves, domestic, 10c. per lb.
Sarsaparilla root, Mexican, 2c. per lb.
Saffron flowers, Spanish, $2 per lb.
Senega root, 5c. per lb.
Tarragon herb, 45c. per lb.

**Reduced**

Coriander seed, bleached, ½c. per lb.
Cumin seed, Morocco, ¼c. per lb.
Cyprus, ½c. per lb.
Cassia, Batavia, No. 1, thin quill, ½c. per lb.
No. 1, regular, 1⅛c. per lb.
China, rolls, selected, ¼c. per lb.
extra select, broken, ½c. per lb.
Ginger root, African, ½c. per lb.
Kamala, 1c. per lb.
Lycopodium, 50c. per lb.
Mustard seed, Roumanian yellow, ½c. per lb.
Poppy seed, Dutch, ½c. per lb.
Turkish, ½c. per lb.
Hungarian, 1c. per lb.
Roumanian, 1½c. per lb.
Rhubarb root, whole, 3c. per lb.
Spikenard root, 5c. per lb.
Wahoo, root bark, 2c. per lb.

### Comparative Values

Index numbers compiled from forty typical botanicals on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 224.2 | 228.7 | 207.2 | 184.1 |

Market news that may have developed after this report was sent to press will be found on page 4.

## Flowers

**Arnica.**—Nominal. Stocks near exhaustion.

**Chamomile.**—Prices subject to confirmation. Some stock still available.

**Elder.**—Bright flowers at 55c. to 60c. per pound. Price subject to confirmation. Reserves low.

**Mullein.**—Declared sold at $1.75 per pound. Nominal market with price subject to confirmation.

**Saffron.**—Spanish at $29 to $30 per pound. Tendency to make $30 minimum noted. Some offers from Portugal made on if-and-when basis. Mexican steady.

## Gums

**Arabic.**—No certainty of shipments arriving from Sudan. Firm market. Good activity along routine lines.

**Current prices on botanical drugs and spices are given in the alphabetical list of prices beginning on page 7**


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✓ CATNIP
✓ CELERY SEED
✓ CINCHONA BARK
✓ COLOCYNTH PULP
✓ COLOMBO ROOT
✓ DERRIS ROOT (5% Rotenone)
✓ DIGITALIS (116% Active)
✓ DOGGRASS
✓ ERGOT (140% Active)
✓ EUPHORBIA
✓ FENNEL SEED
✓ GAMBOGE GUM
✓ GUAIAC GUM (Cleaned)
✓ HENNA LEAVES
✓ HOREHOUND HERB
✓ IRISH MOSS
✓ JALAP ROOT
✓ JUNIPER BERRIES
✓ KOLA NUTS
✓ LAVENDER FLOWERS
✓ LEMON PEEL, Dried
✓ LICORICE ROOT
✓ LUPULIN
✓ MYRRH GUM
✓ OLIBANUM GUM
✓ ORANGE PEEL (Bitter)
✓ ORANGE PEEL (Sweet)
✓ PAPAIN (Choice)
✓ PEPPERMINT
✓ PICHI TOPS
✓ RHUBARB (Gen. High Dried)
✓ SENNA (All Kinds)
✓ SENNA PODS
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**Benzoin.**—Easier price trend on Sumatra gum not extended. Undertones become steadier. Current call routine.

**Guaiac.** — Firmer but unchanged. Demand light.

**Karaya.**—Firm and reasonably active. Shipments slow from source.

**Sandarac.** — Advance consolidated. Further rise not unlikely. Consumers approached for any stock surpluses.

## Herbs and Leaves

**Catnep.**—Southern item sold at 23c. to 25c. per pound.

**Coltsfoot.**—Higher at 35c. to 40c. per pound as stocks drop.

**Henna.**—Primary market still selling shipment goods. Arrival here highly uncertain. Spot, whole, 30c. to 32c. per pound; powdered, 35c. to 37c.

**Liverwort.**—Dwindling supplies revalued upward to 60c. to 65c. per pound.

**Lobelia.**—Firmer, spot and country. Higher here at 14c. to 15c. per pound.

**Peppermint.**—Demand for domestic item raised by drop of foreign leaves spot stock to almost exhaustion point. Domestic up to 60c. to 65c. per pound.

**Pulsatilla.**—Sold at 85c. to 90c. per pound and largely nominal thereat. Prices subject to confirmation.

**Senna.** — Weather conditions in India unfavorable for crop. Estimated 1,500 acres dry land to yield 7,000 hundredweight. Wet lands, 2,000 acres to yield 18,000 hundredweight.

**Tarragon.**—As high as $1.10 per pound has been obtained.

**Wormwood.**—Virtually out of stock on spot. New supply sources sought.

## Miscellaneous

**Ergot.**—Firm. Not generally active. In moderate supply.

**Irish Moss.**—Higher. Ordinary, 25c. to 28c. per pound; prime bleached, 35c. to 38c.; powdered, 32c. to 35c. Replacement virtually impossible.

**Kamala.**—Slightly easier and lower at 32c. to 33c. per pound.

**Lycopodium.**—Firm at $4.25 to $5 per pound but quoted subject to confirmation. Some stocks obtained from buyers holding apparent surplus.

## Roots

**Belladonna.**—Higher and nominal at $1.50 per pound. Quoted without offer and subject to confirmation.

**Calamus.** — Peeled root strictly nominal.

**Doggrass.**—Cut root of N. F., quality quoted higher at 60c. to 65c. per pound. Supply moderate and decreasing.

**Rhubarb.**—Whole shaded to 45c. to 46c. per pound. Powder, held at 50c. to 51c. Competition noted.

**Sarsaparilla.** — Mexican advanced further to 16c. to 18c. per pound, covering replacement cost rise.

**Senega.**—Believed sold at 80c. to 85c. per pound. New crop centered in firm primary market hands.

**Spikenard.**—A shade lower at 16c. to 17c. per pound. Demand light.

## Seeds

**Caraway.**—Advanced to 44c. to 45c. per pound for Dutch. Stocks of Russian were reported exhausted.

**Celery.**—French advanced extended to 50c. to 52c. per pound. Indian, up to 22⅝c. to 23c.

**Colchicum.** — Nominal at $2 per pound, quoted without offer.

**Coriander.**—Bleached shaded to 9c. to 9½c. per pound.

**Cumin.**—Fractionally lower. Morocco, 20½c. to 21c. per pound; Cyprus, 20½c. to 21c. Persian higher at 18½c. to 19c.

**Fenugreek.**—Domestic seed offered from California. Used for cover crop there. Spot price up to 5½c. to 6c. per pound.

**Larkspur.** — Higher and virtually nominal at $1.25 per pound.

**Mustard.** — Much larger domestic crop is likely. European supplies being cut off will raise home output.

**Poppy.** — Price fractionally lower. Dutch, 31c. to 32c. per pound; Turkish, 27c. to 27½c.; Hungarian, 29c. to 30c.; Roumanian, 28c. to 29c.

**Rape.**—Scarce. Recleaned Indian seed a new item on spot at 6¼c. to 6¾c. per pound.

## Spices

**Cassia.**—Batavia spice down fractionally. No. 1, thin quill, 16½c. to 17c. per pound; No. 1, regular, 16¼c. to 16½c. China rolls, select, 11¼c. to 11½c.; broken rolls, select, 10c. to 10½c.

**Ginger.**—Jamaica root very scarce. Spot prices about nominal. Little available at source. African shaded to 6½c. to 7c.

**Mace.**—Banda fractionally higher at 45½c. to 46c.

**Paprika.**—Bulgarian higher at 29c. to 29½c. per pound. Chilian goods offered here for shipment.

**Pepper.**—Generally steady. In fair request for grinding needs. Plentiful stocks here and in primary markets. Prices low on whites and blacks. Whites growing scarcer. Firm to strong on reds.

Trading in black pepper futures on the New York Produce Exchange from November 23 to November 29, inclusive, comprised 137 contracts, a total of 4,603,200 pounds. Following is a price record for the week:—

| | Cents per pound— | | |
|---|---|---|---|
| | High. | Low. | Close. |
| January | 3.92 | 3.88 | 3.88@3.90 |
| March | 3.99 | 3.95 | 3.95@3.99 |
| May | 4.09 | 4.05 | 4.01@4.05 |
| July | 4.14 | 4.10 | 4.10 sale |
| September | 4.22 | 4.19 | 4.16@4.19 |
| October | 4.24 | 4.21 | 4.18@4.22 |
| December | 3.89 | 3.84 | 3.84@3.86 |

**Pimento.**—Spot price jumped to 19c. to 20c. per pound. Is cheaper than replacement cost. Goods due soon quoted 18¾c. November-December arrival, around 20½c. Spot Mexican, 11½c. to 12c.; shipment, prompt from Mexico, 10c.

### Major Knowles Named British Controller of Tar Products

*London, Nov. 26, 1940*

The Secretary of Mines has instituted government control of the primary products of tar distillation, Major T. Knowles, vice-chairman of Monsanto Chemicals, Ltd., has been made controller of tar products. Major Knowles has been given an indefinite leave of absence by Monsanto Chemicals. A. D. Daysh, a member of the directorate of Monsanto Chemicals, Ltd., has been named to succeed Major Knowles as sales head.

## Merck Completes Plan for Control Laboratories

Merck & Co. has completed plans for the new analytical control laboratories to be built at the headquarters plant at Rahway, N. J. Most striking feature of the laboratories is in the design of chemists' laboratory tables which are in the form of a cross. Each of the four angles is designed to provide a working area for one chemist whose writing desk will be within the individual angular area. Opposite ends of each cross will be assigned, respectively, to sinks and to compartments for clean glassware and balance areas for weighing samples.

A fume "hood" will rise from the intersection and will provide individual access points for each chemist. High precision analytical balances will be located within a few feet of each working area. According to the new bench design, each chemist will work in a semi-private bay with all necessary facilities within or adjacent to his station.

The main operating laboratory will be on the third and top floor where artificial lighting will be supplemented by skylight illumination of the saw-tooth type. Throughout the building interior lighting will be achieved through the use of fluorescent tubes.

Many special laboratories have been provided for on the second floor of the building. They include those for analytical research, bacteriology, package inspection, micro-analysis, physical apparatus, spectrography and a photographic dark room, also laboratories equipped for the maintenance of constant temperature and humidity as required.

Areas have been allocated for dusty operations and for those likely to produce excessive fumes. Ovens and furnaces will be located in a separate and specially ventilated department.

### Penick Names Interdonati Special Products Manager

Henry R. Interdonati, active in the chemical and drug industry of this city for the past nineteen years, has joined S. B. Penick & Co., botanical drug merchant, this city, as manager of that company's special products department.

H. R. Interdonati

Mr. Interdonati began his business career in 1921 when he entered the employ of Charles L. Huisking & Co., drug and chemical merchant. He served in the sales department for fourteen years. In 1935 he moved to the Enequist Chemical Company, Brooklyn, whom he served until beginning his employment with the Penick organiation. Mr. Interdonati is also an attorney, admitted to practice before the bar of the State of New York.

**Alfred A. Pfeiffer,** Monroe, N. Y., has registered "Viberon-B" in the office of the Secretary of State at Albany, as a trademark for use by the Thrift Drug Company, Monroe.

**'Nylon'** will be used in the manufacture of industrial brushes, according to an announcement by E. I. du Pont de Nemours & Co.

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# Essential Oils, Aromatic Chemicals

**Essential Oil Price Trend and Tendency Still Upward — Many Imported Items in Short Supply — Fair Stocks of Domestic Oils — Demand Very Steady**

Very steady demand for essential oils and aromatic chemicals contributed substantially to the exceptionally firm undertones and prices that prevailed throughout the past week. In addition, the steady shrinkage of stocks of many imported items was an added element of strength during the period and by the close the tendency and trend of prices was toward still higher levels.

Numerous imported materials cannot longer be imported. Those still obtainable in foreign primary markets are subject to severe delays in transit and are obtainable only on payment of high ocean freight rates and marine insurance. Such conditions do not make for a buyers' market and conditions appeared definitely to be on the side of rising values if demand continues to press.

Fair stocks of domestic oils were in hand but there was not a trace of weakness in the price structure. Most of them were very firm in price and undertone. Stocks have been centered in strong hands and hence the element of competition plays a part of decreasing importance. Demand was very good on the whole, adding strength to market undertones.

## Essential Oils

**Amber.**—Moderate stocks. Limited demand. Firm prices.

**Amyris.** — Demand hand-to-mouth. Limited stocks. Prices steady.

**Anise.**—Higher at $1.05 to $1.10 per pound. Some want $1.25. Stocks conservative. Steady demand.

**Bay.**—More inquiry and selling. Firm to steady prices.

**Bergamot.**—Excellent movement of substitutes for natural oil.

**Birchtar.**—Very firm. Demand fair. Prices well maintained.

**Bois de Rose.**—Firm in all markets. Demand better.

**Cajeput.**—Demand irregular. Limited to prompt needs.

**Calamus.**—Not much held on spot. Market nearer to nominal.

**Camphor.**—Steady to firmer. In good request and moderate supply.

**Cananga.**—Strong wherever it can be found. Replacement slow.

**Capsicum (Oleoresin).**—Good call. Price very firm. Little competition.

**Cardamom.**—Hard to replace. Jobbing demand well maintained.

**Cassia.**—Growing firmer. In better request. Prices better supported.

**Cedarleaf.**—Demand light. Prices steady to firm.

**Cedarwood.** — More than seasonal activity. Prices hold.

**Celery.**—Trade jobbing at higher price of $15 to $16 per pound.

**Citronella.** — Advance maintained. Demand good and gaining some.

**Clove.** — Good business at firm prices. Tendency upward.

**Coriander.**—Higher at $15 to $16 per pound. Little offered.

**Croton.**—Easier at $2.50 to $2.75 per pound. Little call.

**Erigeron.**—Shaded to $2 to $2.50 per pound. Little demand.

**Eucalyptus.**—Stocks more plentiful. Prices slightly easier.

**Fennel.** — Stocks limited to small lots. Prices firm.

**Geranium.**—Prices nominal and subject to confirmation.

**Grapeseed.** — Domestic oil, 45c. to 50c. per pound. Imported, 15c. to 20c. Plentiful supply of latter. Not much interest now.

**Ginger.**—Steady to firm. No raw material shortage yet. Fair call.

**Juniper.**—Stocks virtually exhausted. No replacement possible now.

**Juniper Tar.**—May advance. Question of getting replacements from Spain.

**Lemon.**—Last season, 114,139 tons lemons, equaling 7,509 carloads, were shipped to largest California producer. Market firm. Demand met by home product.

**Lemongrass.** — Firm. Moving well here. Fair call for replacement oil.

**Lime.** — Well sustained demand. Prices firm. Situation normal.

### Price Changes

**Advanced**

Anise, 5c. per lb.
Celery, 50c. per lb.
Coriander, $1 per lb.

**Reduced**

Croton, 25c. per lb.

### Comparative Values

Index numbers compiled from twenty typical essential oils on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 162.3 | 162.3 | 149.7 | 90.9 |

Market news that may have developed after this report was sent to press will be found on page 4.

**Mace.**—Advance maintained readily. Good demand.

**Nutmeg.**—Firm at recent rise. Tendency still toward strength.

**Orange.**—Demand normally active. Prices steady. Good reserves.

**Peppermint.**—Firm to strong. Tendency upward. Stocks in strong hands.

## Aromatic Chemicals

**Acetaldehyde.** — Perfumers' grade firm. Jobbing demand.

**Acetophenone.** — Inquiry gains. Prices show firming tendency.

**Amyl Phenylacetate.**—Demand improved. Buyers cover well ahead.

**Amyl Salicylate.**—Business jobbing. Volume maintained. Price firm.

**Anethol.**—Deliveries prompt. Firm undertones. Moderate call.

**Anisic Aldehyde.**—More inquiry but little gain in sales volume.

**Benzaldehyde.** — Normal activity. Prices firm. Limited competition.

**Benzophenone.** — Steady demand. Firm prices. Moderate stocks.

**Benzyl Acetate.**—Steady call at full market prices.

**Benzyl Alcohol.**—Moderate activity. Undertone steady. Ample reserves.

**Benzyl Benzoate.** — Steady absorption of offerings keep prices firm.

**Benzyl Cinnamate.**—Quiet. Steady. Firm. Stabilized.

**Benzyl Formate.**—Normally active. Prices firm. Good stocks.

**Benzyl Isoeugenol.**—Demand jobbing but steady.

**Benzyl Propionate.**—Activity conventional but very steady.

**Benzyl Salicylate.** — Routine requirements build fair volume.

**Benzylidenacetone.** — Steady, satisfactory demand holds prices firm.

**Bornyl Acetate.**—Demand hand-to-mouth. Requirements strictly jobbing.

**Bromstyrol.**—High grade scarce in some quarters. Normal quality in fair reserve.

**Carvol.** — Some lack stocks. Few hold much. Price about normal.

**Cinnamic Alcohol.**—Steady movement. Price firmer to steadier.

**Cinnamic Aldehyde.**—Call irregular. Mainly jobbing. Prices firm.

**Citral.** — Normally active. Prices strengthen steadily.

**Citronellal.**—Well sustained, jobbing demand. Quotations hold.

**Citronellol.** — Wider interest developing. Prices grow firmer.

**Citronellyl Acetate.**—Demand quiet. Mainly hand-to-mouth. Price steady.

**Citronellyl Butyrate.** — Some increase in sales. Consumption about normal. Prices steady to firm.

**Diethyl Phthalate.** — Firmer and fairly active. Inquiry somewhat broader. Stocks sufficient.

**Dimethyl Hydroquinone.** — Demand moderate. Usually hand-to-mouth coverage of needs. Steady prices.

**Diphenyl Methane.** — Market slow. Moderate inquiry. Steady prices.

**Diphenyl Oxide.**—Routine and entirely normal demand. Firm prices.

**Epenone.**—Demand irregular. Volume small. Quotations steady.

**Ethyl Aubepine.** — Demand gains moderately. Undertones very steady.

**Ethyl Cinnamate.** — More inquiry. Some rise in sales. Firmer prices.

**Ethyl Phenylacetate.**—Trade slow. Buying covers immediate needs only. Quotations steady to firm.

**Ethyl Vanillin.** — Consumption steady. Holds to recent sales volume.

**Eucalyptol.**—Movement sustained at satisfactory limits. Prices firm.

**Eugenol.**—Undertones firmer. Some gain in demand. Little competition.

**Geraniol.**—Fair reserves keep consumers well stocked. Prices steady and reasonable.

**Geranyl Acetate.** — Demand rises above jobbing levels. More active trade.

**Geranyl Formate.**—Limited demand. Little competition. Steady tone.

**Heliotropine.**—Home product supplying buyers promptly. Prices very firm.

**Hydroxycitronellal.** — Movement sustained. Volume normal. Firm prices.

**Current prices on essential oils and aromatic chemicals are given in the alphabetical list of prices beginning on page 7**

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**Isobornyl Acetate.**—Hand-to-mouth demand met on firm price basis.

**Isosafrol.**—Firm to steady. In fair but not expanding request.

**Linalool.** — Prices tend upward. Stocks moderate. Replacement cost firm.

**Linalyl Acetate.**—Demand excellent. Volume maintained. Tends to rise.

**Methyl Acetophenone.** — Inquiries better and develop into satisfactory volume of new orders.

**Vanillin.** — Firm. Active. Stable prices. Amply stocked. Production and sales, past eight years as follows, per U. S. government figures:—

| | Pounds—Production. | Sales. |
|---|---|---|
| 1939 | 608,614 | 604,972 |
| 1938 | 465,077 | 454,948 |
| 1937 | 368,330 | 370,930 |
| 1936 | 314,891 | 293,501 |
| 1935 | 235,198 | 258,457 |
| 1934 | 233,000 | ..... |
| 1933 | 195,811 | 191,039 |
| 1932 | 182,456 | 192,364 |

## Tilden Co. to Move Plant

The Tilden Company, pharmaceutical manufacturer, New Lebanon, N. Y., will discontinue manufacturing operations in St. Louis and consolidate them in its home plant here January 1. J. Harry Cox, president of the company, says that the move will require the erection of an addition to the plant and will result in a 50-percent increase in the number of persons employed.

A distribution office will be maintained in St. Louis.

## 'Rex' and 'Pyrex' Stand As Bottle Trademarks

*OPD Washington Bureau*
*November 25, 1940*

The Supreme Court of the United States today refused to review a case in which a circuit court had decided that the trademark, "Pyrex," did not infringe upon the mark, "Rex."

The circuit court held that the name, "Rex," registered by the Walgreen Drug Stores as a notation for prescription bottles, was not infringed upon by the mark, "Pyrex," a name for bottles of heat-resisting glass made by the Obear-Nester Glass Company. This reversed an earlier opinion on the grounds that the trademarks and the products were not similar enough to be confused.

Denial of review by the supreme court leaves the circuit court decision in force.

## Colombia Imports Ampul Medications

A potential market for ampul preparations exists in Colombia, where European manufacturers have been supplying the bulk of the demand, according to the Chemical Division of the Department of Commerce. Imports of nonbiological injection products in 1939 amounted to 64,855 kilograms net, valued at 659,095 pesos ($375,000). Out of the total imports France supplied 34,189 kilograms, valued at 202,157 pesos; Germany, 13,289 kilograms, valued at 236,090 pesos; Switzerland, 7,226 kilograms, 101,731 pesos, and the United States, 5,108 kilograms, valued at 46,116 pesos.

In addition to prepared ampuls, Colombia presents a potential market for empty ampuls of glass totalling 7,355 kilograms, valued at 20,036 pesos, of which Germany furnished 5,015 kilograms, worth 14,996 pesos and France 1,583 kilograms, valued at 3,401 pesos.

**Wesco Waterpaints, Inc.**, has moved its Chicago office and factory from 1354 West Thirty-seventh street to larger quarters in Matteson, Ill.

## *Trade Briefs*

**Zinc white** is the principal pigment employed by Venezuelan painters, followed by red lead. There is no local manufacture of paints or varnishes.

**W. R. Treadway** has been named acting manager of the Atlanta office of Virginia-Carolina Chemical Corporation. succeeding J. E. Nunally, resigned.

**Harshaw Chemical Corporation,** Cleveland, plans a one-story chemical products manufacturing plant at Elyria, Ohio. Cost will be about $50,000.

**Helena Rubenstein, Inc.,** this city, has been refused registration of "Opalescent" as a trademark for cosmetics, the official position being that the term is a mere descriptive.

**Cuban-American Manganese** Corporation, subsidiary of Freeport Sulphur Company, has called for redemption 594,127 shares of $2 par value preferred stock. Holder has the right to convert it to common share for share January 6, 1941.

# Petroleum Solvents, Lubricants, Fuels

**Burning Oils and Light Fuels Generally Advanced — Kerosene Higher in East—Crude Paraffin Demand Good—Petrolatums and White Oils Weak — Texas Allowable Hiked**

Prices for burning oil and light fuel oils sought higher levels in all sections of the country last week. Continued good demand and the appearance of freezing weather that prompted heavier new business encouraged the price rise. Kerosene also was advanced in New England and most of New York. Gasoline was sluggish. Natural gasoline was reduced in the Midcontinent. Lubricating oils were attracting less attention but were firm.

Crude scale paraffin remained in good call, with offerings a bit freer. Refined grades were well maintained and all prices were firm. Petrolatums and white mineral oils were weak. There was a slower movement of paint thinners and naphthas but the general solvents and diluents market was firmly established.

A 60-day state-wide oil proration allowable, which became effective yesterday, was issued by the Texas Railroad Commission last week. It sets the daily production at 1,316,657 barrels, a rise of 1,432 over the November figure, and 39,657 barrels over the Bureau of Mines estimate for December market demand in Texas. Nine shutdown days for each month were ordered but the commission extended exemption from the shutdown to numerous fields.

Schedules establishing lower motor truck rates on petroleum products between Port St. Joe, Fla., and points in Alabama and Florida have been suspended by the Interstate Commerce Commission.

## Solvents and Diluents

**Aromatic Naphthas.**—Business fair. Price firm.

**Cleaners' Naphtha.**—Market better than normal. No changes in price.

**Lacquer Diluent.**—Consumers needs were apparently well filled and there was less interest in offerings of this material. Shipments were lighter. Price was steady.

**Petroleum Thinners.** — The continued good tone in the market for paint materials was reflected here. Shipments remained heavy and demand for future delivery was good. No prices were changed.

**Rubber Solvent.** — Tire manufacturers continued to order in good volume and contract shipments were maintained at a high level. Inquiries were off slightly. Price was steady and unrevised.

**Stoddard Solvent.**—Less interest in offerings but shipments still fairly large. Price unchanged.

**V. M. & P. Naphtha.**—Similar to thinners, trade was well maintained during the period under review, with shipments heavy and demand active.

### Markets at Other Centers

**Chicago—Nov. 28**

Business in these materials was mostly on a seasonal basis, dependent on the various consuming lines. Paint industry takings were retarded.

AROMATIC NAPHTHAS.—Call quiet. Prices steady.

CLEANERS' NAPHTHA.—Buying fair, with market unchanged.

LACQUER DILUENT.—Orders quiet. No price change.

PETROLEUM THINNERS. — Moderate movement, with market holding.

RUBBER SOLVENT.—Inquiries moderate. Postings unchanged.

### Price Changes

**Advanced**

Kerosene, w.w., 4/10c. per gal., N.Y. and N. Eng.
Oil, fuel, heavy, 5c. per bbl., basis group 3.
distillates, ¼c. per gal., basis group 3.

**Reduced**

Gasoline, natural, ½c. to ¾c. per gal., basis group 3.

Market news that may have developed after this report was sent to press will be found on page 4.

STODDARD SOLVENT.—Interest modest, price situation stable.

V. M. & P. NAPHTHA.—Orders in good total, quotations steady.

**New Orleans—Nov. 28**

Normal demand continued in the domestic market on cleaning solvent and V. M. P. naphtha, with prices remaining unaltered.

CLEANING SOLVENT.—Movement slow; price unchanged.

V. M. P. NAPHTHA.—Demand slow with no change in price.

**Tulsa—Nov. 28**

A better demand from paint manufacturers developed this week. Inquiries for delivery over the first quarter were also more active but the tone of the market did not change substantially. Quotations are steady.

CLEANERS' NAPHTHA.—Trading slow. Quotations fair.

STODDARD SOLVENT.—Better movement. Prices steady.

LACQUER DILUENT.—Fair movement. Quotations unchanged.

V. M. & P. NAPHTHA.—Broader demand. Prices firm.

RUBBER SOLVENTS.—Active trading. Quotations steady.

## Lighter Fractions

**Butane.**—Good demand. Offerings slightly curtailed. Price firm and unchanged.

**Heptane.**—Conservative interest in offerings. Deliveries routine and normal. Price steady.

**Hexane.** — Modest movement of stocks. Inquiries fewer. Spot sales slow. Price firm and unrevised.

**Octanes.** — Fair activity reported. Trade slower than previous week, however. Price unchanged.

**Pentanes.** — Slightly better buying interest, with quotations stable.

**Propane.** — Better buying. Price steady.

### Markets at Other Centers

**Chicago—Nov. 28**

Some lighter fractions have been in active call recently, with the market in general rather strong. Inquiry has been fair.

BUTANE.—Demand inclined to pick up. Prices hold firm.

HEPTANE.—Fair call, with no change in market.

HEXANE.—Some pick-up in interest, market steady.

OCTANES.—Activity moderate. Price unchanged.

PENTANES.—Interest fair, quotations holding.

PROPANE.—More active interest. Market firming.

## Petrolatums and Waxes

**Paraffin.**—Crude scale wax more available and in heavy demand. Prices firm. Refined grades moving well and steady.

**Petrolatums.** — Demand sluggish. Prices easy.

**White Mineral Oils.**—Shipments light and price structure weak.

### Markets at Other Centers

**Chicago—Nov. 28**

Trade fairly good in most classifications of this market, with paraffin materials moving quite well. Petrolatums marked time. White mineral oils continued featureless.

PARAFFIN. — Movement rather good. Price unchanged.

PETROLATUMS.—Market dull, price structure quiet.

WHITE MINERAL OILS.—Fair inquiry, no change in market.

**Tulsa—Nov. 28**

Little interest appeared in the market for paraffin throughout the Mid-con-

### *The State of the Petroleum Market*

Crude oil and gasoline prices were unchanged last week.

| | Nov. 29 | Nov. 22 | Last Year |
|---|---|---|---|
| Crude petroleum prices at well (average for ten fields) per barrel..... | $1.143 | $1.143 | $1.1745 |
| Gasoline prices at refineries (at four refining centers) per gallon..... | .0517020 | .0517020 | .0535775 |

### *Petroleum Production—Motor Fuel Stocks*

| | Barrels | |
|---|---|---|
| | 1940 Jan. 1-Nov. 23 | 1939 Jan. 1-Nov. 23 |
| Commercial crude oil production..... | 1,165,038,667 | 1,104,232,912 |
| | Week ended Nov. 23, 1940 | Week ended Nov. 25. 1939 |
| Daily average production..... | 3,767,425 | 3,543,088 |
| Bureau of Mine estimate..... | 3,570,000 | 3,620,000 |
| | Week ended Nov. 23, 1940 | Week ended Nov. 16, 1940 |
| Estimated motor fuel stocks..... | 80,100,000 | 80,063,000 |
| Estimated finished motor fuel stocks..... | 73,853,000 | 74,112,000 |

**Current prices on petroleum and its products are given in the alphabetical list of prices beginning on page 7**

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FACTORIES AT CLIFTON, N. J. AND SEILLANS (VAR) FRANCE

tinent and Gulf Coast this week. There is an absence of export demand and domestic inquiries continue to be very light. Quotations, however, remain unchanged with crude 124-26 at 2½c. to 3c. per pound.

## Fuels and Lubricants

**Gasoline.**—Consumption smaller. Prices firm.

**Kerosene.**—Market remained strong, with demand heavy. One seller advanced prices 4/10c. per gallon throughout New York and New England.

**Fuel and Gas Oils.**—One seller advanced light fuel oils 4/10c. per gallon throughout New York and New England. Bunker C fuel oil was attracting good interest.

**Lubricating Oils.**—Pennsylvania bright stocks and neutrals were fairly firm, although in small demand.

### Markets at Other Centers

**Chicago—Nov. 28**

All grades of fuel oils for heating purposes are in vigorous demand, and strengthening, with prices strong to higher. Gasoline is irregular but holding its own on the average, despite seasonal slackening in demand. Lubricants are slow.

GASOLINE.—Demand seasonally tapering but tone fairly steady.

FUEL AND GAS OIL.—Increasing orders. Heavy grades slightly higher.

FURNACE OIL.—Demand heavy, moving fractionally higher.

LUBRICANTS.—Demand fair, prices rather mixed but no important change.

**New Orleans—Nov. 28**

Conservative demand continued in the domestic gasoline market, with quotations unaltered. There was no change in demand for kerosene and movement continued slow. Nominal interest was experienced in Bunker C fuel oil, with little activity noted.

GASOLINE.—Demand routine; no price change.

KEROSENE.—Market sluggish, unchanged price.

BUNKER C FUEL OIL.—Market slow; quotations steady.

**Tulsa—Nov. 28**

Heavy inquiries for all burning oils have diverted attention from light fuels, which have held post season interest. Heavy fuels and distillates were advanced. Natural gasoline was reduced.

GASOLINE.—Demand tapering. Quotations easy.

NATURAL GASOLINE.—Lighter demand. Heavier offerings. Prices declining.

KEROSENE.—Active demand. Shipments increasing. Prices up.

DISTILLATES.—Urgent demand. Shipments greater. Prices rising.

FUEL AND GAS OILS.—Orders increasing. Movement greater. Prices higher.

LUBRICANTS.—Broader inquiries. Prices strengthening.

## Petroleum Residuum Freights Raised in S.W.

*OPD Washington Bureau*
*November 25, 1940*

By changing the tariff description of petroleum oil residuum, the Interstate Commerce Commission has authorized increased railroad freight rates for low-gravity residuum throughout the Southwest, with the exception of the rate between Mt. Pleasant, Texas, and New Orleans.

The new definition limits rates on residuum to refinery cracking stock with gravity by American Petroleum Institute standards of not less than 15 degrees. Formerly this rate applied to residuum having A.P.I. gravity of not more than 38 degrees. From now on residuum of less than 15 degrees must be charged asphalt rates, which in some cases are much higher.

The change was requested by most of the railroads in the Southwestern territory, and was approved by the Pan American Petroleum Corporation, Standard Oil Company of Louisiana, Shell Oil Company and the Texas Company. Protests were made by the Talco Asphalt Refining Company, Mt. Pleasant, and the Flintkote Company, prepared roofing manufacturer, New Orleans. They claimed the new description would increase rates on asphaltic residuum between these points by 90 percent, or from 15 cents per 100 pounds to 28.5 cents.

Deciding that a difference in A.P.I. gravity would not justify a 90 percent distinction in the rates, the commission declined to apply the new definition to shipments between those two points; but, since there were no protests on other movements, it allowed the change to go into effect elsewhere.

At the hearings the railroads maintained that the rate on residuum was meant to apply to shipments between refineries and was not intended for movements of asphalt.

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Refined
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# Oils, Fats and Waxes

## Fats and Greases

—*Continued from page* 51

CHICAGO, Nov. 29.—Tallow, prime, inedible, 4¾c. to 4⅞c.; special, 4⅜c. to 4½c.

Trading in tallow futures (new contracts) on the New York Produce Exchange from November 23 to November 29, inclusive, comprised 2 contracts, a total of 180,000 pounds. Following is a price record for the week:—

| | Cents per pound in tanks | | |
|---|---|---|---|
| | High. | Low. | Close. |
| May | ... | ... | 4.80@5.00 |
| December | 4.75 | 4.75 | 4.55@4.75 |

## Animal Oils

**Degras.**—Inquiry was more active. Stocks light or moderate. Tone firm.

**Lard.**—Market firmer with crude material. Quotations ¼c. to ½c. per pound higher. Demand fair.

CHICAGO, Nov. 29.—No. 1 lard oil, 7½c. to 7¾c. per pound.

**Neatsfoot.**—Improved request for moderate lots. Market firm; some grades ¼c. to ½c. per pound higher.

**Oleo.**—Quotations maintained. Tone firm. Spot stocks light. Trade fairly active.

CHICAGO, Nov. 29.—Extra oleo oil, 7c. to 7¼c. per pound.

**Tallow.**—Firmer with basic material. Quotations up ¼c. Business routine.

CHICAGO, Nov. 29.—Acidless tallow oil, 7c. to 7¼c. per pound.

## Waxes

**Bayberry.**—Quiet and unchanged. Limited demand for small lots.

**Bees.**—Firm to strong on crude and gaining strength on refined yellow and white bleached. Offerings of crude small. Demand good for all kinds of wax.

**Candelilla.**—Demand stimulated by scarcity of practically all grades of carnauba. Prices firm, spot and in Mexico.

**Carnauba.**—Market nominal. Prices subject to confirmation. Stocks very low. Replacement cost high. Demand in excess of importers' ability to supply.

**Japan.**—Steady to firm and reasonably active along moderate lines.

**Montan.**—Not available.

**Ozokerite.**—Poland shut off by the European war. Nothing available spot. In World War, exhaustion of stocks of Polish wax led to production in Colorado. No production there thus far so far as known. Colorado wax entirely different from Polish item.

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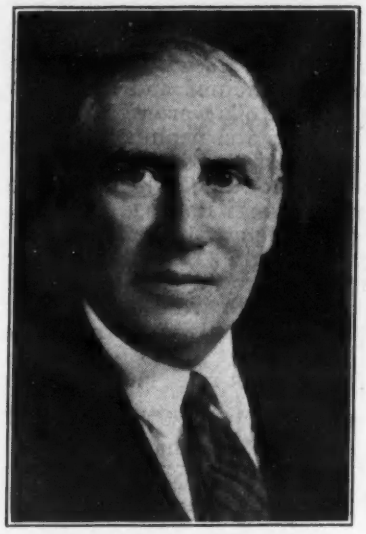
# *Obituaries*

## Dr. Herbert Abram Baker

Dr .Herbert Abram Baker, president of the American Can Company since 1936, this city, died in a hospital here November 25. He was fifty-nine years of age.

Dr. Baker had been associated with the American Can Company and subsidiary companies since 1906, a short time after his graduation from the University of Toronto. After four years of service in the laboratories of two subsidiaries of the company, the Chemical Reduction Company, Niagara Falls, and the Paulsboro Detinning Company of New Jersey, Dr. Baker was made chief chemist, with headquarters in New York. He continued in this position, except for wartime service with the tin apportionment committee of the United States Food Administration in Washington, until 1918, when he was made district manager for packers can sales at Chicago. He continued in Chicago until 1932, when he was made vice-president in charge of sales, with headquarters in New York.



Dr. Herbert A. Baker

Dr. Baker received the honorary degree of doctor of science from Colgate University in 1933. His clubs included the Cosmos Club of Washington, the Chemists Club of New York and the Canadian Clubs of New York and Chicago.

Surviving are his wife and two daughters.

## James H. McGuire

James H. McGuire, co-founder of Baird & McGuire, Inc., Holbrook, Mass., died in his home in East Milton, a Boston suburb, November 26. He was sixty-three years old.

Born in New Berlin, N. Y., Mr. McGuire graduated from Cornell University in 1898, the year in which he joined the Braiburn Steel Company, Pittsburgh. In 1901 he joined Lowe Brothers, Dayton, Ohio, and in 1903 became affiliated with the Cayuga Portland Cement Company, Ithaca, N. Y. The following year he went with the New England Gas & Coke Company, Boston, leaving in 1906 to become a member of the firm of Knox & Moore, Boston.

In 1914 he joined with Campbell Baird in the formation of Baird & McGuire, of which he served as treasurer. About 1928 he severed his connection with Baird & McGuire, Inc., and joined the Koppers Company. He later joined James Huggins & Son, Malden, Mass.

Surviving are his wife, a son, and two daughters.

## Charles E. Peterson

Charles E. Peterson, identified with the sale of alkalies in the United States for more than sixty years, died in his home in Philadelphia, November 26. He was eighty-three years of age.

Mr. Peterson became associated with the chemical industry as a youth of nineteen, having at that time been attached to the Brunner-Mond exhibit at the Centennial Exposition in Philadelphia in 1876., which display marked the first foreign commercial showing in the United States of soda ash, soda bicarbonate and caustic soda.

Mr. Peterson was for some time affiliated with Cooper, Smith & Co., and later was a partner in the firm of Hollingworth & Peterson, formed in 1883. The Hollingworth & Peterson organization was taken over by Wing & Evans in 1925, and in 1927 the Solvay Sales Corporation absorbed the Wing & Evans firm, following which merger Mr. Peterson was named Philadelphia branch manager for the Solvay Sales Corporation. Although subsequently succeeded as branch manager by his son, Charles Maxwell Peterson, he remianed active until last May.

**Carl Bischoff,** former importer of dyestuffs, with offices in this city, died recently in Lugano, Switzerland. He was eighty-four years of age.

**Edwin W. Eakin,** superintendent of the Clarksburg, W. Va., plant of the Grasselli Chemical Company from the time it opened in 1904 until he retired twenty years ago, died recently in Clarksburg. He was eighty-five years of age.

**George K. Fisher,** retired metallurgical engineer, died November 26 at Saranac Lake, N. Y. He was seventy-five years old.

**Miss Constance Halbach,** daughter of Mr. and Mrs. Ernest K. Halbach, Short Hills, N. J., died in her home November 25. Her father is president and chairman of the General Dyestuff Corporation, New York.

**Adolph Henning,** who retired from the firm of Lanman and Kemp-Barclay & Co., wholesale druggist, this city, died November 22 of a heart attack at his South Orange, N. J., home. He was eighty-four years old.

**Mott B. Hughey,** for the past twenty-nine years secretary for the Watkins Salt Company, Watkins Glen, N. Y., died there November 28. He was seventy-three years of age.

**Robert L. Kane,** Eastern district salesmanager for the dairy container division of the Owens-Illinois Glass Company, Toledo, died of a heart attack November 26 while returning from his office to his home in this city.

**Michael D. Morgan,** a chemist with the Standard Oil Development Company, Linden, N. J., died November 24 at Elizabeth, N. J. His age was fifty-eight.

**John C. Nourse,** founder and president of the Nourse Oil Company, Kansas City, died November 24. He was fifty-five years old.

**Prof. H. Earl Young,** for many years an agricultural worker and editor of farm publications, died November 25 of a stomach disorder. He was sixty-one years of age.

**Walter Ten Eyck, jr.,** manufacturing chemist, was found dead November 25 in the garage of his home at Sharon, Mass. He was thirty-nine years old. Authorities attributed the death to accidental carbon monoxide poisoning incurred while Mr. Ten Eyck was working on his car in the closed garage.

## *N.A.R.D. Committee Hits Combine Deals*

—*Continued from page* 4

10. Endeavor to secure an official acknowledgement or interpretation of the definition of vitamins in concentrated form as "drugs"; prompt inclusion of vitamin concentrates in the U.S.P.; protection of the public by restriction of sales of vitamin concentrates to pharmacies.

11. Aggressively seek an equitable adjustment in the excise tax on ethyl alcohol to be used in medicinal preparations.

12. Oppose the distribution of salacious and obscene literature through newsstands.

13. Cooperation in the development of a working program for distributive education in the drug field, under the provisions of the George-Deen act.

14. Cooperation with the Retailers' Advisory committee and the Council of the National Defense to avert unnecessary raises in consumer prices of drug products.

The executive committee selected Cleveland, Ohio, as the place of the 1941 N.A.R.D. convention. The time will be October 6 to 10.

# Fertilizer Materials

**Fertilizer and Feed Materials Strengthen in Midwest — Eastern Markets Slower — Cottonseed Meal Advanced Again in Southeast—Export Sulphate Price Continues to Increase**

Midwestern markets for organic fertilizer and feed materials gained strength last week, although no actual advances were made. All materials appeared to be in better demand and shipments were at a high level. The market was somewhat duller in the East, mixers and feed manufacturers apparently being well supplied for near future needs. Prices, on the whole, ruled firm.

Cottonseed meal continued to advance in the Southeast in line with the higher prices for seed. Baltimore fish scrap factories were closed down and no offerings of bulk menhaden scrap were reported. Japanese sardine meal was unavailable. Sulphate of ammonia remained tight. Demand for export continued heavy and offerings were accepted at higher prices. Sulphate production in October totaled 127,611,000 pounds, a 2.1 percent gain over the 124,965,000 pounds registered in September. Production in October, 1939, was 118,867,000 pounds.

### Price Changes

**Advanced**

Cottonseed meal, $1.50 per ton, Southeast mills.

**Reduced**

None

### Comparative Values

Index numbers compiled from four typical fertilizer materials on the basis of 100 for August 1, 1914, compare as follows:—

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 67.3 | 67.3 | 67.3 | 67.0 |

Market news that may have developed after this report was sent to press will be found on page 4.

## Nitrogenates

**Ammonia Phosphate.** — Shipments were light. Producers continued to limit sales and little material was offered on the spot market. Contract price unrevised and firm.

**Anhydrous Ammonia.**—A small amount of this product trickled into the hands of mixers, but sales and shipments both were small. Prices were steady.

**Castor Pomace.**—Domestic grade firm and in fair call. Imported material not offered. Price nominal.

**Cyanamid.**—Offerings and shipments light. Prices firm.

**Dried Blood.**—Fertilizer and feeding grades remained in fairly good call but volume of shipments was not sufficient to call for any further advances. Prices were steady.

**Fish Scrap.**—Bulk menhaden scrap from Baltimore factories unavailable. Some bagged material offered. Price nominal. No offerings of Japanese sardine meal.

**Nitrate of Soda.**—Shipping season due in late Winter. Some contracts negotiated last week. Price unchanged.

**Nitrogenous Material.**—Fair call. Prices steady.

**Sulphate of Ammonia.**—Tight. Good demand for export at price of about $38 per ton.

**Tankage.**—Similar to blood, this ammoniate was in fairly good call and prices were firm and unchanged.

**Urea.**—Fair movement. Prices steady.

## Potashes

Shipments on contracts were small during the period under review, the majority of mixers already having stocked heavily. Spot market was routine. Material was offered a bit more freely. Prices were firm and unchanged.

## Phosphates

**Bone Materials.**—Feed manufacturers were fairly active but shipments were lighter than in previous weeks. Prices were firm and unchanged on both domestic and imported products.

**Phosphate Rock.**—Normal movement reported. Prices steady and unchanged.

**Superphosphate.** — Business slow. Prices steady.

## Sulphur and Pyrites

Crude sulphur shipments continued to decline during the week but were fairly satisfactory for this time of year. Price was steady and unchanged. There was a bit of interest in pyrites but the market was still considered nominal.

### Markets at Other Centers

**Atlanta—November 27**

Continued rise in cottonseed meal price is attributed to the high price of seed. Price of 8 percent material in the Southeast is $30.50 to $31 per ton. Fertilizer men are considering peanut meal which is selling at $25 per ton at mills, and carries 8¾ percent ammonia. Soybean meal is reported scarce.

SUPERPHOSPHATE. — 55c. per unit, interior producing points.

NITRATE OF SODA.—Bulk, $27 per ton, port basis.

SULPHATE OF AMMONIA. — Nominally $28 per ton, ports.

COTTONSEED MEAL. — 8% grade, $30.50 to $31 per ton southeastern mills.

BLOOD.—S. Am. $2.50, ports.

TANKAGE.—Imported, $2.60 and 10c., ports.

NITROGENOUS.—$1.75 per unit, midwest.

**Baltimore—November 27**

The market for crude fertilizer materials shows no material change from the conditions that have prevailed for some time past.

FISH SCRAP.—With menhaden fishing operations down the Chesapeake Bay and off the Virginia capes brought to a close, there has been little or no opportunity to make material additions to the stocks of this ammoniate.

SUPERPHOSPHATE.—Demand is still hesitant. Producers are adhering to the quotations of $8 per ton for 16 percent and $8.50 per ton for 16 percent flat supplies.

TANKAGE. — Conditions in this division are unchanged, with the last trading negotiated at $2.50 and 10c. per unit-ton for unground material, although some higher-testing supplies have brought as much as $2.80 and 10c.

DRIED BLOOD.—Quiet prevails, with offerings at $2.50 per unit-ton.

SULPHATE OF AMMONIA.—The price of this commodity continues to advance, with offerings small. One seller having realized $40.50 per ton for export, has marked his asking figure to $41.

**Chicago—November 27**

Strong market conditions prevail in fertilizer materials, with buyers apparently in a mood to keep in touch with the market and with trade ruling at rather generous volume levels. Blood has been moving a little more actively. Inquiry is better in some cases for bone materials. Tankage business is a little irregular, but tone there is good also.

BLOOD.—Principal grade, $2.80 per unit of ammonia.

TANKAGE.—High grade, feeding, $2.80 and 10c.; hoofmeal, $2 to $2.50; liquid stick, $1.75 to $2.

BONE MATERIALS.—Ground, steamed bone, 1¼ and 60 percent, $29 to $30; 3 and 50, $32 to $35; 4½ and 50 percent, $31 to $33; grinding hoofs, pigs' toes and waste horn materials, $34 to $35; cattle jaws, skulls and knuckles, $30 to $35; beef cracklings, soft pressed, $32.50 to $35 per ton; pork cracklings, soft pressed, $35 to $37.50; hard pressed cracklings, per unit of protein, 60c. to 62½c.

**San Francisco—Nov. 27**

Feeding materials occupy attention of market factors engaged in the trading of fertilizer products. The market remains firm. In the Southern part of the State all organic products have been getting a good call. Leading mixers state that advance orders for the next spreading season, which will get under way in February, are satisfactory.

SULPHATE OF AMMONIA.—$38 per ton in 100-pound bags, delivered inland points.

SUPERPHOSPHATE.—80c. per unit in bulk, f.o.b. San Francisco. Bags, 91c.

NITRATE OF SODA.—100-pound bags, $29.40 per ton, and 167-pound bags, $28.70, both ex vessel or warehouse. Bulk lots at $27.

FISH MEAL.—Steady to stronger. Spot and futures, 67% protein, $47.50 per ton, f.o.b. San Francisco; 65% protein, $46.50, f.o.b. Monterey.

TANKAGE.—Unground, wet rendered, $2.70 and 10c. per unit-ton, f.o.b. plant, Northern California. Dry rendered, ground, 50%, $35 per ton, f.o.b. cars, South San Francisco. Unground, dry rendered, 57½c. per unit of protein, f.o.b. cars, South San Francisco.

BLOOD MEAL.—$2.60 per unit, f.o.b. cars, South San Francisco, and $2.75 Los Angeles. New Zealand and/or South American blood, $2.65, ex dock, Pacific Coast.

**Current prices on fertilizer materials are given in the alphabetical list of prices beginning on page 7**

## *Books You Can Use*

### Chemistry Handbook

**Handbook of Chemistry and Physics.** Edited by Charles D. Hodgman. Flexible cloth; 2,564 pages, 5x7 inches. Cleveland: Chemical Rubber Company. $3.50.

This, the twenty-fourth edition of the standard, convenient reference source of chemical and physical scientific data, has again been enlarged and revised in all divisions so as to bring its encyclopedic contents up-to-date. It contains information so useful to those concerned with chemicals and the data of chemistry, physics, and engineering, that, once consulted, it will soon become dog-eared and "comfortable" through constant use.

Most important among the new matter appearing in this edition for the first time is a sixty-five page table of the physical constants of industrial organic chemicals. This compilation provides the trade name, formula, uses, source of supply, and technical data regarding over 400 new and extensively used compounds. Another new feature is a table concerned with induced radio activities.

Noteworthy revisions and expansion were also made in the general table of physical constants of organic compounds in the new volume. Over 300 new compounds have been added to the list and those previously listed have been carefully revised. The list now contains well over 9,000 entries, Similarly, the divisions presenting the properties of commercial plastics, and gravimetric factors and their logarithms have been modernized.

### Buffalo Electro Establishes Two Chemistry Fellowships

Two graduate fellowships in chemistry at the University of Buffalo have been donated by the Buffalo Electro-Chemical Company. The fellowships will provide the holder with $1,000 for the academic year. During his tenure, each fellow will be engaged in research work under the supervision of the university's chemistry department as a candidate for the degree of doctor of philosophy. The fellowships will be available for the year beginning next September. Appointments will be made in March.

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## *Chemical Employment Gains in N.Y. Shown*

*—Continued from page 3*

cal products and much more labor was required at that time for production of the same amount of product than is required today.

Employment in this group has been below the 1914 level only during 1932 to 1934. Although the employment trend line for this group displays a downward dip of 0.6 points in the index per year, this drop is far less severe than the decline of 1.8 points for the total of all manufacturing in the State.

In the photographic supply and industrial chemical industries, the general trends of employment have been upward during the period. The sharp drop in paints and oil products concerns during 1932 to 1934 has not been regained in recent years and, for these industries, the general trends have been downwards.

### Seasonal Influences Negligible

Comparatively, seasonal influences affect employment and payrolls of chemical workers very little. Even in those industries such as photographic supplies, paints and petroleum, where consumer demand is seasonal, production and employment are maintained at fairly even levels throughout the course of the year.

Although employment in several chemical plants, particularly those making fertilizers, linseed oil and fireworks, does vary from month to month in a regular pattern, the seasonability of the component parts of the group largely cancel each other in the figures for the totals.

The ranges of employment and payrolls seasonal indexes for the chemical group are less than those for any other industrial category. The demand for most chemical products is elastic, and variations in general business conditions have a greater effect upon the changes of employment and payrolls than any other factor.

### Employment Up 40 Percent

The expansion that took place in the chemical industries from the beginning of 1915 to the end of 1918 was, next to that for the metals, the greater for any of the main industrial groups. Employment rose about 40 percent in the four-year period.

The production of materials used in the conduct of the war, together with the absence of European competition in the normal market for chemical products, including photographic materials, was chiefly responsible for this expansion. The most remarkable development during the World War period was at plants making coaltar products and dyestuffs. Before the war, American requirements for dyestuffs had been largely imported. When the war cut off European sources of supply, the chemists in this country had to fill the need for them. They did this so successfully that even after the war was ended the United States required very little of the imported product.

A moderate decline was reported in the group as a whole during the first half of 1919. This was largely due to the cancellation of war orders at coke and industrial chemical plants. Paint and photographic supply plants reported continuous increases throughout 1919 and the first half of 1920.

After the readjustment to peacetime conditions had been completed at industrial chemical and oil products firms by the middle of 1919, they, too, were on the upgrade for the next year. Total employment in the group during 1920 was a little below that in 1918, but payrolls were much higher than in any previous year.

The oil products plants began to lay off workers in August, 1920. By the end of the year most other chemical plants were reducing their forces. The decline in the group was practically continuous from November, 1920, to March, 1922. The net decrease of 35 per cent in the number of employees that was recorded at that time was not fully regained in the following nineteen years.

### Paint Trend Upward

From March, 1922, to the end of 1923, the trend was upward. Manufacturers of paints and colors had reported the smallest number of employees during the first post-war depression in January, 1921, and definite improvement after November, 1921.

The drugs and industrial chemicals division reported increasing employment after January, 1922, but continued reductions in the oil products and miscellaneous chemicals divisions prevented a rise in total employment before April, 1922. In most divisions the upward movement continued until November, 1923, although manufacturers of paints and colors reduced their forces more than 10 percent between April and October, 1923.

From January to July, 1924, employment in the drugs and industrial chemicals industry dropped rapidly and, after April, 1924, the number of workers in photographic and miscellaneous chemicals was also reduced. By August, 1924, total employment for the group was nearly as low as at the end of the 1921 depression. Total payrolls, however, were very much higher. A further decrease in employment was reported by oil products and photographic chemicals in the summer of 1925. However, the total decrease in employment in the group as a whole between the high point in 1923 and the low point in 1925 was only a little more than 10 percent.

This loss was regained in the period from August, 1925, to August, 1927. After a drop that lasted from September, 1927, to July, 1928, the upward movement was resumed, and in 1929 both employment and payrolls advanced to the highest levels recorded since the depression of 1921. In November, 1929, employment was 8 percent and payrolls 14 percent above the average for 1925-27. Expansion in the photographic and industrial chemical divisions from 1925 to 1929 was practically continuous. The trend in the paints and colors division was downward from 1925 to 1929 and in the oil products division from 1927 to 1929.

### Lowpoint Reached in 1933

Photographic supply firms continued to expand until June, 1930, and their gains offset to some extent the losses in the other chemical firms. The net loss in the group as a whole between 1929 and 1930 was much less than in most other industrial groups. During 1931 and 1932, all chemical industries declined. The depression low point in the group as a whole was reached in April, 1933, when the employment index was 75.7 percent of the 1925-27 average.

From May, 1933, until September, 1937, the general trend of employment in the chemical group was upward. The oil products division was the only division that did not participate in the gains. The trend in this industry has been downward from 1927 to 1939. Drugs and industrial chemicals firms were operating with more employees in 1937 than at any time since 1920. Photographic chemical concerns employed more workers in 1937 than at any previous time in their history. This upward trend, leading to new highs, was continued through 1938 and 1939. The employment index in the paints and colors division rose from 60.6 in 1933 to 76.7 in 1937. For the chemical group as a whole, the year 1937, with employment over 10 percent greater than in the base period from 1925 to 1927, was the best year since 1920.

Large losses at industrial chemical plants from October, 1937, to the middle of 1938 were primarily responsible for the drop of about 10 percent in forces for the group during that recession period. These plants began to take back workers in June, 1938, and in August the group as a whole began to advance. The trend in all chemical industries was upward during the sevond half of 1938 and all of 1939.

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### Pitts. Plate Glass to Sell Through Columbia Div.

The sale of chemicals manufactured by the Pittsburgh Plate Glass is now being handled directly by its Columbia Chemical Division, rather than through its sales subsidiary, the Columbia Alkali Corporation. This change, which became effective December 1, did not affect the personnel and headquarters of the sales executives and the sales organization. The status of existing contracts of the Columbia Alkali corporation and existing distributor relationship has not been affected either, the company announced.

## *Metal Needs Asked of Science*

*—Continued from page 5*

strength of at least 60,000 pounds per square inch at a temperature of 2200° F., for use in mandrels and dies.

54. A gasket metal for refrigerator units, soft enough to function as a gasket, but not so soft that it will flow under stud pressure.

55. A steel for use in die casting of brass which will give a life comparable to that now obtained in die castings of zinc.

56. Bodies for metal containers produced from drawn or spun tubing.

57. A metal for use in the rotary pump industry that is more resistant to wear under nonlubricated conditions.

58. Metal with spring resilience strength and weight of hickory that would not expand or contract with changing moisture content and temperature of air from 40 degrees below to 140 degrees above zero.

59. The tool industry would like a material between the so-called "high-speed" steel and the cemented carbides and stellite type materials.

60. Nonferrous alloy having the property of a lubricant, as well as a high tensile strength and yield point, and impervious to the leaking of liquids and gases through its structure.

61. Method of securely attaching a short piece of high-speed steel to a longer piece of less-expensive material so that it could be annealed, machined and heat treated without injury to the bond, for pipe-threading dies ranging in size from 1½ inches by 1¼ inches to 1 inch by 4½ inches.

62. Steel in the form of wire and wire rods, free from seams and scratches.

63. *Small-diameter steel wire which would be rustproof without coating and without the expensive stainless process.

64. Resistance wire material having a zero temperature coefficient and a resistivity one or two orders higher than now available.

65. A flexible aluminum material to produce flexible aluminum venetian blind slats.

66. A lighter material for frame and body construction for trucks. Aluminum is much too expensive.

67. Metal saggers that will stand 1300° to 1400° C. without distorting, blistering, or oxidizing.

68. An inexpensive low-resistance, nonfusing, noncorroding contact material for use in devices that open or close electrical circuits.

69. In the condenser tube field, considerable difficulty has been encountered in obtaining corrosion resistant condenser tubes.

70. A die-casting material which would stand a higher temperature than zinc and, therefore, be suitable for use in flatirons, electric toasters, etc.

71. A metal that would flow at a lower temperature and be of a nature more nearly solid (as in a plastic) and which would drive air ahead under pressure rather than allow air to enter throughout its body, would be extremely valuable to the entire printing industry.

72. The dairy industry needs alloys satisfactory for drawing into tubes and castings which contain no copper, or are so insoluble that no copper is dissolved by milk at any temperature.

73. A means to make copper and brass stainless would be very valuable.

74. White brass or an easily machined stainless steel from which small parts could be made without requiring any additional finish.

75. An inexpensive brass alloy of high electrical conductivity.

76. *Of inestimable value to us as manufacturers of bearing bronzes would be a material to take the place of tin in bronze alloys.

77. A tarnish-resistant bronze powder for application in the graphic arts.

78. A process for making parts for magnetic purposes by means of powder metallurgy to have better magnetic properties than is now possible from rolled silicon iron bars.

79. A brazing material with a melting-point above that of standard solder and below that of silver solder, capable of joining materials of copper and brass without red heat.

80. *Soldering flux that will not cause corrosion of soldered parts in service.

81. Leadfree solder with a melting point of 700° F., unobjectionable when in contact with milk.

82. *An aluminum solder to work as well as common lead solder does on tin.

83. A method of refining high-carbon ferromanganese to eliminate carbon, or a direct method of preparing low-carbon ferromanganese, would be extremely valuable.

84. *An economical process for the recovery of manganese from low-grade ores would be of vast importance to the United States.

85. Development of a chromium-plating process for use on aluminum.

86. Method of plating, with brass or bronze, pieces previously coated with cadmium plate.

87. A tin-plating process that will produce a bright finish.

88. A commercial method of applying zinc in pipe, ranging from ⅛ inch to 6 inches I.D., by the electrolytic process would be a very big step forward.

89. A method to prevent spotting of brass-plated malleable iron castings made by the bench-molded process.

90. Reasonably priced material for piping, tanks, pumps, etc., which would be resistant to the corrosive action of strong brines containing potassium and sodium chloride.

In instances where items requested or information relevant therto is available, Research Advisory Service would be glad to be informed to that effect so that it might pass this along to the inquirer. Information sent to the OPD office will be transmitted to the research organization.

Research Advisory Service, in its recent survey of research needs, acknowledges its appreciation of the assistance given by E. R. Stettinius, jr., member of the Advisory Commission to the Council of National Defense; Dr. Thomas Midgley, jr., vice-chairman of the National Inventors Council; and by a number of industrial executives, including Harold Boeschenstein, president of the Owens-Corning Fiberglas Corporation; G. C. Frolich, vice-president of the United Drug Company; W. J. O'Brien, vice-president of the Glidden Company; William M. Rand, vice-president of the Monsanto Chemical Company; F. J. Tone, president of the Carborumdum Company, and A. J. Wadhams, vice-president of the International Nickel Company.

Research Advisory Service was established through the voluntary cooperation of more than 800 industrial research laboratories to enable manufacturers to find answers to their practical working problems. An inquiring company is under no expense or obligation in this connection; its identity is not disclosed without permission. The service does not undertake research work of its own, but refers problems to laboratories in industry, universities, technical schools, and trade associations which cooperate in the program. It does not compete with consulting engineers, chemists, testing laboratories, or marketing consultants. The service is maintained in large part through the cooperation of the number of banks, among these being the following:—

Cleveland Trust Company, Cleveland, Ohio; Equitable Trust Company, Wilmington, Del.; Liberty Bank of Buffalo; Harris Trust & Savings Bank, Chicago; Hartford-Connecticut Trust Company, Hartford, Conn.; Merchants National Bank of Boston; National Commercial Bank & Trust Company of Albany; Rhode Island Hospital National Bank, Providence, R. I.; Second National Bank of New Haven, Conn.; Trust Company of New Jersey, Jersey City; Wachovia Bank & Trust Company, Winston-Salem, N. C.; and Wells Fargo Bank & Union Trust Company, San Francisco.

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## McK.&R. Directors Offer To Surrender Stock

J. H. Ballinger and C. B. Seeley, members of the directorate of McKesson & Robbins, have offered to surrender to William J. Wardall, trustee, a total of 1,602 preference shares and 19,030 shares of common stock on the condition that no suit will be entered against them on any claims arising out of their actions as directors.

The trustee has applied to the Federal court in New York for authority to accept the offers. The action of the two directors followed the precise course taken earlier by others on the directorate. Taking the preference stock at its legal priority of $50 and accumulated dividends, the value of the securities to be surendered was approximately $170,000.

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### Norwich Promotes Brennan, Anderson and R. Wolfe

The Norwich Pharmacal Company, Norwich, N. Y., has elected Thomas A. Brennan a vice-president. Mr. Brennan started his career with Norwich in 1915 as a salesman in Kansas City, Mo. He became manager of the Kansas City division in 1924 and manager of the Chicago division in 1938. He is now manager of the West Central division, with headquarters in Chicago.

Herbert R. Anderson has been made assistant manager of the West Central division and R. Roy Wolfe will be the assistant manager of the Northern division.

# Shipping Information

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## Imports at U.S. Ports

### New York Imports

AGAR—10 bls, Kachurin Drug Co, Kobe
95 bls, Kobe

ALOE—263 cs, Wessel, Duval & Co, Puerto Cabello
57 tins, Wessel, Duval & Co, Puerto Cabello

ANTIMONY ORE—1,279 bgs, Metal Traders, Inc, Salaverry

ARNICA FLOWERS—6 bls, Manoel Francisco, Du Costa, Lisbon

ARROWROOT—3,500 bgs, Morningstar-Nicol, St Vincent

ASBESTOS—1,000 bgs, Union Asbestos Co, Durban
878 bgs, Keasbey & Mattison, Capetown
2,250 bgs, Comm National Bank, Capetown
600 bgs, Capetown

ASPHALT—354 bgs, Allied Asphalt & Mineral Co, Havana
6 bgs, Havana

BALSAM—20 cs, Geo Lueders & Co, Cristobal

BAUXITE ORE—1,080 tons, Republic Mining & Mfg Co, Port Spain
1,965 tons, Republic Mining & Mfg Co, Paramaribo

BISMUTH—208 cs, Cerro de Pasco Copper Co, Callao

BLEACHING POWDER — 203 dms, H H Rosenthal & Co, Kobe

BRISTLES—30 cs, H Rosenbusch Co, Shanghai
14 pkgs, J Henry Schroeder Banking Corp, San Antonio
65 cs, S Hirshenhorn & Son, Shanghai
50 cs, H Rosenhirsch Co, Shanghai
50 cs, S Hirshenhorn & Son, Shanghai
50 cs, H Rosenhirsch Co, Shanghai
40 cs, S Hirshenhorn & Son, Shanghai
8 cs, Arnhold & Co, Dairen
20 cs, Arnhold & Co, Dairen
8 cs, S Hirshenhorn & Son, Kobe
11 cs, F H Cone & Co, Kobe
13 cs, S Hirshenhorn & Son, Kobe
26 cs, N Wagman & Co, Monkden
10 cs, N Wagman & Co, Tientsin
55 cs, N Wagman & Co, Tientsin
50 cs, F H Cone & Co, Shanghai
28 cs, F H Cone & Co, Tientsin
50 cs, F H Cone & Co, Shanghai
20 cs, F H Cone & Co, Tientsin
50 cs, F H Cone & Co, Tientsin
20 cs, M Broverman & Co, Tientsin
11 cs, Guaranty Trust Co, Tientsin
114 cs, Arnhold & Co, Tientsin
40 cs, Arnhold & Co, Tientsin

BUCHU LEAVES—10 bls, S B Penick & Co, Capetown
5 bls, J L Hopkins & Co, Capetown

CANARY SEED — 177 bgs, National City Bank, Buenos Aires
84 bgs, Buenos Aires
246 bgs, National City Bank, Buenos Aires
331 bgs, National City Bank, Buenos Aires
110 bgs, National City Bank, Buenos Aires

CARDAMOM—100 tins, P H Petry & Co, Livingston

CASEIN—250 bgs, A Hurst & Co, Buenos Aires
67 bgs, A Hurst & Co, Buenos Aires
667 bgs, American Cyanamid & Chem Co, Buenos Aires
850 bgs, Casein Co of America, Buenos Aires

CASSIA—100 bls, A G Dunn, Hongkong
200 bls, A G Dunn, Hongkong
166 bls, Irving Trust Co, Padang
131 bls, Irving Trust Co, Padang
54 bls, Irving Trust Co, Padang

CASTOR BEANS—350 bgs, Port au Prince
1,667 bgs, Baker Castor Oil Co, Pernambuco
1,354 bgs, Pernambuco
677 bgs, National City Bank, Pernambuco
833 bgs, Baker Castor Oil Co, Pernambuco
840 bgs, Bunge North American Grain Co, Pernambuco
2,555 bgs, Baker Castor Oil Co, Pernambuco
1,700 bgs, Blue Point Oil Corp, Pernambuco
6,450 bgs, Baker Castor Oil Co, Ceara
1,580 bgs, Ceara
2,417 bgs, Baker Castor Oil Co, Ceara

MEAL—2,229 bgs, National City Bank, Port au Prince

CHEMICALS—88 dms, Sandoz Chem Works, Lisbon
153 dms, Rohner, Gehrig & Co, Lisbon
23 cs, Wedemann & Godknecht, Lisbon
2 cs, Dumont Shipping Co, Lisbon
128 dms, Goudrand Shipping Co, Lisbon
8 bbls, Goudrand Shipping Co, Lisbon

CHILLIES—100 bgs, A G Dunn, Kobe
100 bgs, A G Dunn, Kobe

CHROME ORE—1,521 tons, 10 cwt, Frank Samuels & Co, Lourenco Marques
1,006 tons, 11 cwt, 2 qtrs, 17 lbs, E. J Lavino & Co, Lourenco Marques
3,200 tons, E J Lavino & Co, Santa Cruz
2,700 tons, E J Lavino & Co, Masinloc

CINNAMON—100 bls, Catz American Co, Colombo
100 bls, Volkart Bros, Colombo
100 bls, Catz American Co, Colombo
150 bls, Colombo
250 bls, Colombo

CLOVES—1 pkg, A G Dunn, Macassar
1 pkg, H Schoenfeld & Co, Macassar

COBALT BEARING RESID—195 dms, African Metal Corp, Beira
987 bgs, African Metal Corp, Africa

COCOA BEANS—5,000 bgs, Wessel, Kulenkampf & Co, Bahia
1,000 bgs, Guaranty Trust Co, Bahia
1,000 bgs, Middleton & Co, Bahia
6,000 bgs, Wessel, Kulenkampf & Co, Bahia
500 bgs, J P Morgan & Co, Bahia
2,500 bgs, Nieschlag & Co, Bahia
2,000 bgs, Wessel, Kulenkampf & Co, Bahia
1,000 bgs, Middleton & Co, Bahia
459 bgs, Meyer & Co, La Guaira
125 bgs, Nieschlag & Co, Puerto Cabello
300 bgs, General Cocoa Co, Puerto Cabello
113 bgs, Nieschlag & Co, Puerto Cabello
250 bgs, W R Grace & Co, Guayaquil
250 bgs, Wood & Selick, Guayaquil
250 bgs, A Canale, Guayaquil
250 bgs, Guayaquil

COCOA BEANS—250 bgs, Wessel, Kulenkampf & Co, Cristobal
3 bgs, Cristobal
358 bgs, Tropic Food, Cristobal
50 bgs, General Cocoa Co, Trinidad
200 bgs, Daarnhouwer & Co, Cristobal
12 bgs, Rawmesim Corp, Cristobal
250 bgs, Wessel, Kulenkampf & Co, Cristobal
167 bgs, Cristobal
121 bgs, Cristobal
500 bgs, A A Lindo & Co, Puerto Limon
50 bgs, General Cocoa Co, Trinidad
250 bgs, Cristobal
204 bgs, Balfour, Guthrie & Co, Sourabaya
406 bgs, Balfour, Guthrie & Co, Sourabaya
205 bgs, Balfour, Guthrie & Co, Sourabaya
549 bgs, Semarang
2,000 bgs, General Cocoa Co, Inc, Bahia
750 bgs, Struller & Wood, Jeremie
165 bgs, C M Mackey, Cape Haitien
240 bgs, Transmarine Mercantile Corp, Jeremie
200 bgs, Struller & Wood, Jeremie
696 bgs, Struller & Wood, Jeremie
67 bgs, Struller & Wood, Jeremie
3,000 bgs, General Cocoa Co, Ilheus
16,500 bgs, Wessel, Kulenkampf & Co, Ilheus
500 bgs, Bank of London South America, Ilheus
3,000 bgs, General Cocoa Co, Ilheus
500 bgs, Bank of London South America, Ilheus
24,000 bgs, Balfour, Guthrie & Co, Africa
3,200 bgs, Balfour, Guthrie & Co, Africa
1 bg, Hamilton Trading Co, Africa

RESIDUE—50 bgs, Stern, Stiner & Co, Ilheus

COCONUTS—740 bgs, Kingston
714 bgs, J L Toledano Corp, Panama City
802 bgs, Dominica
1,057 bgs, Universal Import & Export Co, St Lucia
200 bgs, St Lucia

CORK—81 bgs, Mundet Cork Corp, Lisbon
4 bgs, A Harris & Co, Lisbon
15 bgs, L N Henault & Son, Vigo
15 bls, Globe Shipping Co, Bilbao
25 bls, F Ferrer, Bilbao
20 bls, Globe Shipping Co, Bilbao
5 bls, Budde & Westerman, Bilbao
21 bls, National Carloading Corp, Lisbon
110 bls, Garcia & Diaz, Lisbon
16 bls, Grace Line, Lisbon

BOARD—500 cs, Fred Henjes, Jr, Lisbon

FLOATS—30 bls, Barcelona

WASTE—648 bls, National City Bank, Lisbon

COTTON LINTERS—8 bls, W R Grace & Co, Cristobal
69 bls, Wessel, Duval & Co, Payta
81 bls, Bunge North American Grain Co, Payta
8 bls, Wessel, Duval & Co, Payta
178 bls, Buenos Aires

COTTONSEED MEAL—2,240 bgs, Eastern Feed Co, Santos

CUBE ROOT—63 bls, Astoria Import & Mfg Co, Callao
56 bgs, Astora Import & Mfg Co, Callao
480 cs, Astoria Import & Mfg Co, Iquitos
128 cs, R J Prentiss & Co, Iquitos

DERRISROOT—83 cs, Guaranty Trust Co, Semarang
40 cs, Wm A Allison & Co, Sourabaya
42 cs, Guaranty Trust Co, Semarang

DIVI DIVI—334 bgs, Aruba

DRUGS, CRUDE—158 cs, Reed & Romano, Callao

DYES, ANILIN—28 dms, J E Bernard & Co, Lisbon
32 dms, J E Bernard & Co, Lisbon
373 pkgs, Atlantic Shipping Agency, Lisbon
41 bbls, Goudrand Shipping Co, Lisbon
5 cs, Goudrand Shipping Co, Lisbon

EPHEDRA—31 bls, S B Penick & Co, Kobe

ERGOT—14 pkgs, Lisbon

FLAXSEED—4,841,000 kilos, 193,640 bus, Rosario
4,218 bgs, 9,279 bus, Rosario
1,285 bgs, 2,827 bus, Buenos Aires
quantity, Buenos Aires

FLEASEED—13 bgs, R J Prentiss & Co, Bilbao

GAMBIER—87 cs, American Dyewood Co, Asahan
84 cs, American Dyewood Co, Asahan
87 cs, American Dyewood Co, Asahan

GINGER—1 cs, I P Boody & Co, Hongkong

GLUESTOCK—120 bls, Havana

GRAPHITE—866 bgs, C E Pettinos, Colombo
286 bgs, J F Starkey & Co, Colombo

GUAIAC EXTRACT—5 cs, Buenos Aires

GUM, BENZOIN—100 cs, S B Penick & Co, Sibolga
CHICLE—97 bdls, Chicle Development Co, Kingston
COPAL—141 bskts, H P Winter & Co, Macassar
191 bskts, American Cyanamid & Chemical Co, Macassar
80 bskts, Gillespie, Rogers Pyatt Co, Macassar
204 bskts, H P Winter & Co, Macassar
226 bskts, Chase National Bank, Macassar
130 bskts, H P Winter & Co, Macassar
191 bgs, Chase National Bank, Macassar
82 bskts, Irving Trust Co, Macassar
128 bskts, Manufacturers Trust Co, Macassar
63 bgs, Manufacturers Trust Co, Macassar
1 pkg, Van Norden & Archibald, Macassar
228 bskts, Chase National Bank, Macassar
212 bskts, Chase National Bank, Macassar
1,482 bgs, O G Innes Corp, Africa
603 bgs, P Busschaert, Africa
300 bgs, Central Hanover Bank Trust Co, Africa
200 bgs, Stroock & Wittenberg, Africa
911 bgs, O G Innes Corp, Africa
20 bgs, Banque Belge pour L'Etranger, Africa
300 bgs, Africa

CRUDE—27 cs, J M Petit,

DAMMAR—50 cs, W H Scheel, Singapore
50 cs, Padang
50 cs, O G Innes Corp, Padang
50 cs, Padang
144 cs, Irving Trust Co, Padang
150 cs, Irving Trust Co, Padang
100 cs, Stroock & Wittenberg, Padang

GUM TRAGACANTH—160 cs, E Meer & Co, Batavia
122 cgs, E Meer & Co, Batavia
21 cs, E Meer & Co, Batavia
180 cs, E Meer & Co, Batavia
30 cs, E Meer & Co, Batavia
30 cs, E Meer & Co, Batavia
72 bgs, E Meer & Co, Batavia

HERBS—1 pkg, Alicante

IPECAC ROOT—8 bgs, S B Penick & Co, Rio Janeiro

IRON OXIDE—25 bbls, C B Chrystal & Co, Malaga
2 bbls, H Muller & Co, Malaga
50 bbls, Wishnick-Tumpeer, Malaga
25 bbls, C B Chrystal & Co, Malaga
63 bbls, Wishnick-Tumpeer, Malaga
650 bbls, Robinson Wagner Co, Malaga
500 bbls, Reichard Coulston, Malaga
512 bbls, C J Osborn & Co, Malaga
262 bbls, Robinson Wagner Co, Malaga
360 bbls, Reichard Coulston, Malaga

KOLA NUTS—151 bgs, S B Penick & Co, Africa

LIVER EXTRACT CONC—17 kgs, Lederle Lab, Havana

LOOFAHS—30 bls, Schroeder & Tremayne, Kobe

LYCOPODIUM—40 cs, C L Huisking & Co, Kobe

MACE—39 cs, Catz American Co, Macassar
35 cs, Catz American Co, Macassar
58 cs, Catz American Co, Macassar
20 cs, Catz American Co, Macassar
1 pkg, Catz American Co, Macassar
1 pkg, H Schoenfeld & Co, Macassar
11 cs, Chase National Bank, Menado
48 cs, Menado
46 cs, Menado

MAGNESITE, GRAIN—300 bgs, Madras
LUMP—900 bgs, Madras

MANIOC FLOUR—74 bgs, Java American Export Co, Rio Janeiro

MARSHMELLOW ROOT—20 bls, Alicante
81 bls, Alicante
46 bls, Alicante

MATE—15 cs, Buenos Aires
163 bgs, Manufacturers Trust Co, Montevideo
2 bls, Buenos Aires

MEDICINAL PREPS—27 cs, Wedemann & Godknecht, Lisbon
2 pkgs, New York & Cuba Mail S S Co, Havana
7 ctns, Upjohn & Co, Puerto Limon
3 cs, Picot Laboratories, Rio Janeiro

MICA—13 cs, E Munsell & Co, Rio Janeiro
18 cs, Ford Radio & Mica Corp, Rio Janeiro
90 cs, F D Pitts & Co, Rio Janeiro
77 cs, American Mica Works, Victoria
17 cs, Ford Radio & Mica Co, Rio Janeiro
6 cs, Eugene Munsell & Co, Rio Janeiro
66 cs, F D Pitts Co, Rio Janeiro
61 cs, Ford Radio & Mica Co, Rio Janeiro
11 cs, Eugene Munsell & Co, Rio Janeiro

MOLASSES—320,000 kilos, W R Grace & Co, Salaverry
380,000 kilos, W R Grace & Co, Salaverry
170,694 gals, American Molasses Co, Havana

MONAZITE SAND—1,000 bgs, G F Doherty Co, Victoria
500 bgs, C Tennant Sons & Co, Alleppey
3,000 bgs, C Tennant Sons & Co, Colachel

NUTMEGS—80 cs, Catz American Co, Macassar
1 pkg, A G Dunn, Macassar
82 bgs, Catz American Co, Macassar
1 pkg, H Schoenfeld & Co, Macassar
80 cs, Catz American Co, Macassar
62 bgs, Catz American Co, Menado
260 bgs, Padang
80 bgs, Chemical Bank Trust Co, Padang
81 bgs, National City Bank, Padang
214 bgs, National City Bank, Padang
200 bgs, Thomas Scott & Co, Grenada

NUX VOMICA—1,000 bgs, S B Penick & Co, Cochin
400 bgs, American Express Co, Alleppey

OIL, BAY—Barclay Bank, Dominica

CAMPHOR—10 dms, Ungerer & Co, Yokohama
25 dms, Givaudan-Delawanna, Yokohama
10 dms, Norda Essential Oil & Chem Co, Yokohama

CANANGA—2 dms, National City Bank, Batavia
1 dm, Guaranty Trust Co, Batavia
2 dms, National City Bank, Batavia

CHINAWOOD—54 dms, L N Jackson & Co, Hongkong

CITRONELLA — 40 dms, Givaudan-Delawanna, Batavia
20 dms, National City Bank, Batavia

COCONUT—200 cyls, Colombo

COD—100 dms, Canada
52 cks, Canada

CODLIVER—40 dms, Kobe
1,114 dms, Iceland

ESSENTIAL—7 dms, Lisbon

LAVENDER, SPIKE—4 dms, Alicante

LEMONGRASS—4 dms, Volkart Bros, Cochin
5 dms, Givaudan-Delawanna, Cochin
9 dms, H P Winter & Co, Cochin
6 dms, Givaudan-Delawanna, Cochin
7 dms, H P Winter & Co, Cochin
9 dms, H P Winter & Co, Cochin
2 dms, Volkart Bros, Liverpool

LIME, DIST—23 dms, Ungerer & Co, Port Spain
12 dms, Fritzsche Bros, Port Spain
12 dms, Dodge & Olcott Co, Port Spain

LIME—14 cs, Dominica

MARINE—190 dms, M B Decks & Co, Curacao

OITICICA—100 dms, Rio Janeiro

OLIVE SULPHUR—250 dms, Liberty Title & Trust Co, Lisbon

ORANGE—2 dms, Fritzsche Bros, Kingston
20 cs, Magnus, Mabee & Reynard, Kingston
10 cs, Kingston
10 cs, United Fruit Co, Kingston

PALM — 473 tons, Banque Belge Pour L'Etranger, Belawan Deli
274 tons, Banque Belge Pour L'Etranger, Belawan Deli
459 tons, Banque Belge Pour L'Etranger, Belawan Deli
1,270 tons, Balfour, Guthrie & Co, Africa

PATCHOULI—2 dms, National City Bank, Batavia

PETITGRAIN — 8 dms, Ungerer & Co, Buenos Aires
12 cs, Buenos Aires

PIMENTO LEAF—13 cs, Geo Lueders & Co, Kingston

OIL, ROSEWOOD—14 dms, Para
6 dms, Para
3 dms, Para

VEGETABLE—50 dms, Bahia

VETIVER—1 dm, Volkart Bros, Batavia

ORANGE PEEL — 1 cs, Gillespie & Co, Curacao
10 bbls, J De Kuyper & Son, Curacao
25 bgs, Transmarine Mercantile Corp, Cape Haitien

ORE—2 bgs, American Smelting & Refining Co, Cristobal

PAPAIN—20 cs, S B Penick & Co, Colombo

PAPRIKA—25 bgs, A G Dunn, Alicante
50 bgs, Van Loan & Co, Alicante
50 bgs, Knickerbocker Mills Co, Alicante
25 bgs, Alicante
50 bgs, I Harrison & Whitney, Alicante
50 bgs, Levy & Levis Co, Alicante
200 bgs, Alicante
50 bgs, Jewett & Sherman Co, Alicante
25 bgs, Jewett & Sherman Co, Alicante
50 bgs, Alicante
50 bgs, Hudson Tea & Spice Co, Alicante
250 bgs, C B Milton, Alicante
150 bgs, J Raphael & Son, Alicante
25 bgs, Alicante
50 bgs, Hudson Tea & Spice Co, Alicante
25 bgs, Alicante
100 bgs, Knickerbocker Mills Co, Alicante

PEPPER, WHITE—84 bgs, Nederlandsche Handel Mij, Kobe
164 bgs, Public National Bank Trust Co, Kobe
168 bgs, Nederlandsche Handel Mij, Kobe
162 bgs, J F Frank, Batavia
162 bgs, J F Frank, Batavia
84 bgs, H P Winter & Co, Batavia
168 bgs, Nederlandsche Handel Mij, Batavia
84 bgs, H P Winter & Co, Batavia
168 bgs, Nederlandsche Handel Mij, Batavia
84 bgs, Padang
86 bgs, Catz American Co, Padang

PERFUME—5 cs, Oxzyn Sales Co, St George
SYNTH—6 cs, Firmenich & Co, Lisbon
11 cs, Universal Carloading & Distr Co, Lisbon

PIMENTO—30 bgs, Kingston
19 bgs, P H Petry & Co, Livingston

POTASH, PERMANGANATE—200 dms, H H Rosenthal Co, Kobe

QUEBRACHO EXTRACT—1,060 bgs, Tannin Corp, Buenos Aires
1,050 bgs, International Product Corp, Buenos Aires
500 bgs, Tannin Corp, Buenos Aires
472 bgs, Tannin Corp, Buenos Aires
350 bgs, Tannin Corp, Buenos Aires
46 bdls, Buenos Aires
500 bgs, International Product Corp, Buenos Aires

QUINCE SEED—12 bgs, E Meer & Co, Batavia

RAPESEED—172 bgs, National City Bank, Buenos Aires
424 bgs, National City Bank, Buenos Aires

RHUBARB—168 bgs, C Itah & Co, Kobe

SAFFRON FLOWERS—1 cs, Lisbon
2 cs, Garcia & Diez, Alicante
4 cs, Garcia & Diez, Alicante

SCHEELITE ORE—97 bgs, Mercantile Metal & Ore Corp, Buenos Aires
97 bgs, Mercantile Metal & Ore Corp, Buenos Aires

SEED, MED—20 bgs, S B Penick & Co, Malaga

SHELLAC—150 bgs, E E Androvette, Calcutta
50 cs, E E Androvette, Calcutta
100 bgs, E E Androvette, Calcutta

SOAP—10 cs, Joseph Victori & Co, Buenos Aires

SPONGES—5 bls, Havana
4 bls, Nassau
3 bls, Nassau
23 bls, Havana

REFUSE—121 bls, Mantas Bros, Havana
4 bls, Nassau

STARCH, MANIOC—50 bgs, Rio Grande

RICE—10 bgs, Rio Grande

SUNFLOWER SEED—200 bgs, Levy & Levis Co, Buenos Aires

TALC—1,000 bgs, C Itah & Co, Dairen
400 bgs, C Itah & Co, Dairen
200 bgs, C Itah & Co, Dairen

TAMARINDS—2 half bbls, Dominica
9 bbls, Dominica

TANTALITE ORE—371 cks, Philipp Bros, Africa
49 dms, Philipp Bros, Africa

TAPIOCA, FLAKE—935 bgs, Stein, Hall & Co, Sourabaya

FLOUR—500 bgs, Rutger, Bleecker & Co, Cheribon
1,000 bgs, Stein, Hall & Co, Batavia
500 bgs, Rutger, Bleecker & Co, Cheribon
823 bgs, Stein, Hall & Co, Sourabaya
2,675 bgs, Balfour, Guthrie & Co, Pasoeroean
549 bgs, Stein, Hall & Co, Sourabaya
500 bgs, American Cyanamid & Chem Co, Batavia
250 bgs, Rutger, Bleecker & Co, Batavia
549 bgs, Stein, Hall & Co, Sourabaya
500 bgs, Bank of New York, Batavia
500 bgs, Bank of New York, Cheribon

GRIST—179 bgs, Stein, Hall & Co, Sourabaya

PEARL—671 bgs, Stein, Hall & Co, Sourabaya

SEED—303 bgs, Stein, Hall & Co, Sourabaya

TARA PWD—161 bgs, Colony Import & Export Co, Salaverry
376 bgs, Chase Natl Bank, Salaverry

TARTAR—208 bgs, Charles Pfizer & Co, Alicante

TEAWASTE—2,000 bgs, Citro Chem Co, Calcutta
1,008 bgs, Maywood Chem Works, Calcutta

THYME LEAVES—217 bls, Alicante

TIN BARILLO—500 bgs, Philipp Bros, Arica
508 bgs, Philipp Bros, Arica
500 bgs, Philipp Bros, Arica

ORE—801 bgs, W R Grace & Co, Mollendo

TOLU BALSAM—30 cs, Wessel, Duval & Co, Barranquilla
25 cs, S Grazi & Co, Barranquilla
10 cs, Barranquilla

TONKA BEANS—5 cks, Irving Trust Co, Port Spain
2 kegs, Irving Trust Co, Port Spain

TUNGSTEN, CONC—46 dms, Molybdenum Corp, Buenos Aires
112 bgs, Molybdenum Corp, Buenos Aires

ORE—136 bgs, Metal Traders, Inc, Callao

VANILLA BEANS—25 cs, M S Kattenhorn & Co, Semarang
5 cs, Far Eastern Representative, Semarang
7 cs, National City Bank, Batavia
WATTLE BARK EXTRACT—502 bgs, Tannin Corp, Durban
WAX—100 bgs, D Steengrafe, Buenaventura
BEES—48 bls, Chase National Bank, Lisbon
21 bls, Havana
22 bgs, D Steengrafe, Havana
21 bgs, Havana
28 bgs, Havana
80 bgs, Van Oppen & Co, Santos
80 bgs, D Steengrafe, Santos
140 bgs, Innis, Speiden & Co, Bissau
192 bgs, A E Brounund Co, Bissau
CARNAUBA—68 bgs, Smith & Nichols, Bahia
136 bgs, American Cyanamid & Chem Co, Bahia
36 ogs, Bahia
67 bgs, American Cyanamid & Chem Co, Bahia
68 bgs, American Cyanamid & Chem Co, Bahia
103 bgs, Bank of London and South America, Rio Janeiro
48 bgs, Bank of London and South America, Rio Janeiro
56 bgs, Simmonds & Grey, Ceara
56 bgs, Hillyard Sales Co, Ceara
28 bgs, Bank of London and South America, Ceara
22 bgs, Bank of London and South America, Ceara
33 bgs, W M Allison & Co, Ceara
107 bgs, American Cyanamid & Chem Co, Ceara
56 bgs, Innis, Speiden & Co, Ceara
34 bgs, Strohmeyer & Arpe Co, Ceara
47 bgs, Bank of London and South America, Ceara
119 bgs, W M Allison & Co, Ceara
OURICURY—67 bgs, Wessel, Duval & Co, Bahia
34 bgs, Chase National Bank, Bahia
67 bgs, Wessel, Duval & Co, Bahia
68 bgs, Wessel, Duval & Co, Bahia
22 bgs, Strahl & Pitsch, Bahia
22 bgs, A Hurst & Co, Bahia
VEGETABLE—24 cs, F H Petry & Co, Livingston
100 cs, H H Rosenthal Co, Kanmon
50 cs, W M Allison & Co, Kanmon
200 cs, Kobe
WOLFRAM ORE—500 bgs, Irving Trust Co, Antofagasta
1,003 bgs, W R Grace & Co, Mollendo
288 bgs, W R Grace & Co, Arica
440 bgs, Traders, Inc, Arica
95 bgs, W R Grace & Co, Arica
100 bgs, Rio Grande
150 bgs, United States Treasury Dept, Buenos Aires
ZIRCONIUM ORE—43 bgs, Associate Metal & Mineral Corp, Santos

## New York Transit Imports

ASBESTOS—1 bg, Union Asbestos & Rubber Co, Capetown, Chicago
CASHEW SHELL LIQUID—500 dms, Irvington Varnish & Insulation Co, Calicut, Irvington
300 dms, Harvel Research Corp, Mongalore
OIL, COCONUT—600 tons, Procter & Gamble Co, Manila, Cincinnati
600 tons, Procter & Gamble Co, Manila, Cincinnati
PAPRIKA—50 bgs, Alicante, Toronto
50 bgs, Alicante, Bridgeport
150 bgs, Alicante, Chicago
50 bgs, Alicante, Montreal
50 bgs, Alicante, Cincinnati
50 bgs, Alicante, Bridgeport
35 bgs, Alicante, Toronto
TUNA LIVERS—21 dms, Silmo Chem Corp, Monado, New Jersey

## Baltimore Imports

BONES—2,448 bgs, Buenos Aires
CHROME ORE—9,653 tons, Lourenco Marques
COTTONSEED MEAL—8,500 bgs, Santos
4,761 bgs, Santos
IRON ORE—5,700 tons, Bethlehem Steel Co, Daiquiri
11,300 tons, Bethlehem Steel Co, Cruz Grande
21,700 tons, Bethlehem Steel Co, Cruz Grande
MANGANESE ORE—950 tons, Manila
6,200 tons, Santiago
7,700 tons, Takoradi
7,600 tons, Rio Janeiro
3,920 tons, Vizagapatam
8,000 tons, Rio Janeiro
OIL, FUEL—61,376 bbls, Standard Oil Co N J, Caripito
QUEBRACHO EXTRACT—4,190 bgs, Buenos Aires
6,371 bgs, Buenos Aires
SESAME SEED—168 bgs, Hongkong
TANKAGE—6,012 bgs, Buenos Aires

## Boston Imports

BONES—356 bgs, Eastman Gelatine Corp, Buenos Aires
CASSIA—50 bls, A G Dunn, Hongkong
50 bls, A G Dunn, Hongkong
COCOA BEANS—4,500 bgs, Scarburgh & Co, Bahia
6,500 bgs, Wessel, Kulenkampf & Co, Bahia
3,000 bgs, Scarburgh & Co, Bahia
1,000 bgs, Bank of Manhattan, Bahia
2,000 bgs, Scarburgh & Co, Bahia
3,000 bgs, W R Grace & Co, Bahia
5,000 bgs, Scarburgh & Co, Bahia
CORUNDUM CRYSTAL—717 bgs, E J Lavino & Co, Lourenco Marques
403 bgs, E J Lavino & Co, Lourenco Marques
400 bgs, E J Lavino & Co, Lourenco Marques
256 bgs, E J Lavino & Co, Lourenco Marques
425 bgs, E J Lavino & Co, Lourenco Marques
590 bgs, E J Lavino & Co, Lourenco Marques
MACE—12 cs, Catz American Co, Macassar
14 cs, Catz American Co, Macassar
MICA—60 cs, Buenos Aires
OIL, COCONUT—500 tons, Philippine Refining Co, Manila
QUEBRACHO EXTRACT—1,000 bgs, International Product Corp, Buenos Aires
2,165 bgs, Tannin Corp, Buenos Aires
1,275 bgs, International Product Corp, Buenos Aires
1,072 bgs, Tannin Corp, Buenos Aires
1,015 bgs, American Tanners, Ltd, Buenos Aires
1,500 bgs, International Product Corp, Buenos Aires
TAPIOCA FLOUR—250 bgs, Rutger, Bleecker & Co, Batavia
800 bgs, Rutger, Bleecker & Co, Batavia

## Charleston Imports

WAX, VEGETABLE — 200 cs, Mitsubishi Shoji Kaisha, Kanmon
100 cs, Mitsubishi Shoji Kaisha, Kanmon

## Los Angeles Imports

ANTIMONY ORE—85,000 lbs, Iguala
ASBESTOS, CRUDE—98,340 lbs, Capetown
BLOOD, DRD—100,000 lbs, Montevideo
BONEMEAL—50,000 lbs, Tientsin
COCONUT, DESIC—69,850 lbs, Zamboanga
272 cs, 33,880 lbs, Manila
1,370 cs, 145,630 lbs, Manila
COPRA—1,120,000 lbs, Philippine Islands
2,240,000 lbs, Cebu
616,000 lbs, Manila
1,120,000 lbs, Cebu
448,000 lbs, Manila
2,240,000 lbs, Philippine Islands
MEAL—15,560 sx, 1,556,000 lbs, Manila
7,000 bgs, 700,000 lbs, Manila
FISH LIVERS—350 tins, 14,000 lbs, Yokohama
435 tins, 17,400 lbs, Tokyo
98 tins, 3,920 lbs, Japan
ISINGLASS—80 lbs, Kobe
PARAFFIN—1,694 bgs, 224,090 lbs, Soengi Gerong
PEANUT MEAL—50,000 lbs, Buenos Aires
SESAME SEED—110 lbs, Kobe
SOAPBARK—1,580 lbs, Santiago, Chile
STARCH—250 lbs, Shanghai
240 lbs, Yokohama
1,020 lbs, Kobe
RICE—180 lbs, Kobe
TAPIOCA FLOUR—21,800 lbs, Batavia

## New Orleans Imports

COCONUTS—42 tons, Tela
27 tons, Puerto Cabezas

## Newport News Imports

CHROME ORE—2,500 tons, E J Lavino & Co, Beira
MANGANESE ORE—5,513 tons, Philadelphia National Bank, Durban

## Norfolk Imports

TAPIOCA FLOUR—2,797 bgs, Stein, Hall & Co, Sourabaya
630 bgs, Guaranty Trust Co, Cheribon
416 bgs, Stein, Hall & Co, Sourabaya
370 bgs, Guaranty Trust Co, Batavia
820 bgs, Stein, Hall & Co, Sourabaya
1,531 bgs, Stein, Hall & Co, Sourabaya
6,758 bgs, Stein, Hall & Co, Sourabaya

## Philadelphia Imports

BONEMEAL—937 bgs, National City Bank of New York, Buenos Aires
BONES—9,651 bgs, Phila National Bank, Buenos Aires
3,817 bgs, Buenos Aires
590 bgs, Montevideo
CASEIN, GRD—500 bgs, Buenos Aires
CHROME ORE—5,015 tons, E J Lavino & Co, Beira
4,873 tons, Loreto
COCONUTS—74 bgs, Simon & French, San Juan
150 bgs, San Juan
COCOA BEANS—5,000 bgs, Bankers Trust Co, Bahia
5,000 bgs, National City Bank of New York, Bahia
1,000 bgs, Irving Trust Co, Bahia
750 bgs, Guaranty Trust Co, Bahia
CORK, VIRGIN—6,055 bls, Chase National Bank, Lisbon
WASTE—7,912 bls, Chase National Bank, Lisbon
FLAXSEED—500 tons, Leval & Co, Buenos Aires
GLYCERINE—100 dms, Buenos Aires
155 dms, National City Bank of New York, Buenos Aires
IRON ORE—5,500 tons, Agua Amarga, Spain
LEAD—4 bbls, E Bers & Co, Ponce
MOLASSES—1,336,014 gls, Publicker Alcohol Co, Sagua and Havana
790,416 gls, E I duPont de Nemous & Co, Macoris
613,592 gls, E I duPont de Nemours & Co, Palenque, D R
PETROLEUM, CRUDE—105,138 bbls, Gulf Oil Corp, Las Piedras
103,722 bbls, Gulf Oil Corp, Puerto la Cruz
116,686 bbls, Gulf Oil Corp, Puerto la Cruz
QUEBRACHO EXTRACT—2,380 bgs, Tannin Corp, Buenos Aires
SHELLAC—100 bgs, Wm Zinsser & Co, Calcutta
SOAPSTOCK—200 bbls, West Texas Cotton Oil Co, Buenos Aires
TANKAGE—2,016 bgs, Buenos Aires
1,102 bgs, Rio Grande
1,500 bgs, Armour & Co, Montevideo
1,660 bgs, Buenos Aires
VANILLA BEANS—1 cs, David Michael & Co, Mayaguez

## Imports Detained

Detentions recently effected at various ports by United States authorities on determination by the Food and Drug Administration that products offered for import were adulterated or misbranded under the Federal food and drug and cosmetic act, or did not comply with other customs regulations, included the following articles for the reason stated:—

### New York

**Week Ended November 27**

Chlorophyl, 1 parcel; restricted use.
Cod oil, 117 casks; restricted use.
Cumin seed, 100 bags; filthy.
Marjoram, 5 bales; filthy.
Medicinal preparation, 3 parcels; new drug.
Medicinal preparation, 1 parcel; false therapeutic claims; dangerous drug.
Thyme leaves, 597 bags; dirty.
Valerian root, 20 bags; not U.S.P.

### Atlanta

**Week Ended November 27**

Hair preparation, 1 parcel; not properly labeled.

### Baltimore

**Week Ended November 27**

Fertilizer mixture, 3,261 bags; restricted use.
Mineral salts, 1 parcel; not properly labeled; dangerous drug.

### Boston

**Week Ended November 27**

Cod oil, 9,582 gallons; restricted use.
Codliver oil, 71 drums; not U.S.P.

### San Francisco

**Week Ended November 21**

Medicinal, 1 piece; omission of mandatory labeling.
Medicinal, 28 pieces, false therapeutic claims.

### Seattle

**Week Ended November 21**

Agar, 1 case, 500 pieces; uncertified coaltar color.

# Exports from U.S. Ports

## Los Angeles Exports

ACID, BORIC—1,500 bgs, 168,000 lbs, Liverpool; 3,950 bgs, 448,000 lbs, Liverpool; 160 pkgs., 15,680 lbs, Madras; 3 pkgs, 540 lbs, La Guaira; 10 bbls, 3,100 lbs, Manila; 100 bgs, 11,030 lbs, Santos
ADRENALIN—30 lbs, Liverpool
ALUMINUM POWDER—630 lbs, Singapore
ASPHALT—2 dms, 1,140 lbs, Hongkong; 1 dm., 660 lbs, Manila
LIQUID—64 dms, 35,650 lbs, Bombay
BORATE—6,532 bgs, 1,226,460 lbs, Osaka; 2,830 sks, 480,410 lbs, Osaka/Kobe
BORAX—1,446 bgs, 240,780 lbs, Osaka; 1,078 bgs, 179,600 lbs, Osaka; 370 pkgs, 41,440 lbs, Bombay; 40 kgs, 4,480 lbs, Madras; 40 cs, 4,480 lbs, Rio Janeiro; 493 bgs, 220,500 lbs, Sao Paulo
BUTANE—50 cyls, 5,000 lbs, Barranquilla
CLAY, FILTER—1,344 bgs, 67,200 lbs, Batavia; 800 sks, 40,320 lbs, Haifa; 1,764 sks, 87,360 lbs, Tjepoe
REFRACTORY—100 lbs, La Guaira
DIATOMACEOUS EARTH—3,431 bgs, 327,360 lbs, Liverpool; 200 bgs, 20,000 lbs, Karachi; 20 bgs, 2,000 lbs, Jerusalem; 10 bgs, 1,000 lbs, Panama; 500 bgs, 50,000 lbs, Caibarien; 1,322 bgs, 132,200 lbs, Buenos Aires
ETHYLCELLULOSE—100 lbs, Hongkong
FILM SCRAP—7,710 lbs, Liverpool
GASOLINE—81,650 bbls, Vladivostok; 11,829 bbls, Tokuyama; 44,739 bbls, Manila/Cebu; 11,422 bbls, Tokuyama; 84,489 bbls, Yokohama
AVIATION—25,000 dms, Yokohama/Moji; 14,000 dms, Yokohama/Moji
GLUE—100 lbs, Cristobal
GREASE—101 pkgs, 12,010 lbs, Manila
KEROSENE—23,134 bbls, Manila/Cebu
LACQUER—5,690 lbs, San Juan; 80 lbs, Manila; 520 lbs, Karachi
THINNER—1,810 lbs, San Juan; 2,640 lbs, Santurce; 1,760 lbs, Karachi; 11,440 lbs, Bombay; 750 lbs, Madras; 31,440 lbs, Singapore
LEAD, RED—4,200 lbs, Manzanillo
OIL, COCONUT—67 dms, 26,800 lbs, Port Prince
COTTONSEED, REFD—36 dms, 14,850 lbs, Tokyo; 350 dms, 144,310 lbs, Yokohama
DIESEL — 8,549 bbls, Vancouver; 84,253 bbls, Tsurumi; 7,026 bbls, Manila/Cebu; 30,010 bbls, Shanghai; 41,085 bbls, Osaka; 13,612 bbls, Nugata
FISH—2,080 lbs, Caguas
FUEL—8,244 bbls, Vancouver; 42,216 bbls, Manila; 49,303 bbls, Manila; 68,672 bbls, Tocopilla; 2,500 bbls, Puerto Armuelles
LINSEED, BOILED—420 pkgs, 38,400 lbs, Manila
LUBRICATING—10 dms, Rio Piedras; 10 dms, Batavia; 300 dms, Basrah; 250 dms, Manila; 120 dms, Shanghai; 10 dms, Manila
PALM, HYDROG—625 bgs, 100,000 lbs, Manila
SALAD—10 lbs, Tokyo
VEGETABLE, FLAKE—530 bgs, 53,000 lbs, Puerto Cabello
PAINT—450 lbs, San Juan; 15,200 lbs, Manila; 690 lbs, Bombay; 2,780 lbs, Palembang; 4,020 lbs, Guayaquil
BITUMINOUS—900 lbs, Manila
DRIER—1,200 lbs, Manila
MATERIAL—800 lbs, Hongkong
PREPARED—160 lbs, Singapore
THINNER—60 lbs, San Juan; 11,820 lbs, Singapore; 220 lbs, Bombay
PARIS GREEN—15,000 lbs, San Juan
PECTIN, CITROUS, POWD—4,000 lbs, London
PETROLEUM, COKE, CALC—3,720,640 lbs, Yokohama
CRUDE—52,315 bbls, Ioco; 75,773 bbls, Tokuyama; 73,215 bbls, Tokuyama; 36,148 bbls, Niigata
POTASH, MURIATE—500 bgs, 100,800 lbs, Mayaguez
PUTTY—50 lbs, Manila; 540 lbs, Singapore
PYROPHOSPHATE—45 bbls, 20,000 lbs, Bahrein Islands
RESIN, SYNTH—920 lbs, Hongkong
SYNTHETIC SOLUT—1,600 lbs, Hongkong
ROSIN—500 lbs, Hongkong
SOAP LIQ—970 lbs, Manila
POWDER—450 lbs, Cristobal
SODA ASH—551,150 lbs, Rio Janeiro; 220,500 lbs, Sao Paulo
BISULPHITE—21,150 lbs, Barranquilla
SOLVENTS—15 dms, 4,540 lbs, Vancouver
SULPHUR—2,540 lbs, Madras
TALC—140 bgs, 15,680 lbs, Havana; 20 sx, 2,240 lbs, Santiago; 1,700 bgs, 100,000 lbs, Havana; 850 bgs, 43,250 lbs, Barranquilla; 290 bgs, 19,000 lbs, La Guaira
TOILET PREPS—7,380 lbs, Barranquilla; 120 lbs, San Juan; 5,700 lbs, Sourabaya; 5,700 lbs, Batavia; 3,740 lbs, Havana; 120 lbs, Fort Clayton; 1,050 lbs, Hongkong; 190 lbs, Ciudad Trujillo
VARNISH—220 lbs, Manila

## New Orleans Exports

ACID, PHOSPHORIC—19 tons, Tampico
CALCIUM ARSENATE—325 tons, Cristobal
CARBIDE—25 tons, Cristobal
CYANIDE—28 tons, Puerto Cabezas
DIATOMACEOUS EARTH — 31 tons, Vera Cruz
FIRECLAY—18 tons, Cristobal
GLASS, WINDOW—18 tons, Puerto Barrios
LARD—31 tons, Havana; 17 tons, Cristobal; 18 tons, Barranquilla; 45 tons, Cartagena; 12 tons, Puerto Barrios; 8 tons, Panama City; 16 tons, West Coast South America; 16 tons, Vera Cruz
SUBSTITUTE—14 tons, Puerto Limon
OIL, DIESEL—86 tons, Puerto Cabezas
FUEL—273 tons, Ceiba
LUBRICATING—9 tons, Puerto Cabezas
OILMEAL—51 tons, Havana
PARAFFIN — 41 tons, Cristobal; 53 tons, West Coast South America
ROSIN—24 tons, Cristobal; 18 tons, Cartagena; 24 tons, West Coast South America
SALT—213 tons, Havana
SODA, XANTHATE—5 tons, Puerto Cabezas

## Philadelphia Exports

ANTIKNOCK FLUID—20 dms, Santos; 26 dms, Rio de Janeiro
BRAKE FLUID—1 dm, Petsamo
CEMENT, RUBBER—2 pails, Petsamo
GREASE—4 dms, 1 pail, Petsamo; 2 cs, 1 bbl, Santos; 10 cs, Victoria
LICORICE PASTE—15 cs, Rio de Janeiro
METAL GLAZE—1 pail, Petsamo
OIL, LUBRIC—200 dms, Montevideo; 11 dms, Petsamo; 1 bbl, Santos; 265 dms, Rio de Janeiro; 55 cs, 30 dms, Victoria
TURPENTINE SUBSTITUTE—200 dms, 1,000 cs, Rio de Janeiro; 200 cs, Paranagua

## *Foreign Trade Rules*

Information recently published by the Department of Commerce on foreign tariff and related trade regulations include the following:—

**Baking Powder:**—Union of South Africa has ruled that the contents for baking powder containers should be:—2 ounces, 4 ounces, 8 ounces, 1 pound, or an integral number of pounds, provided that packages containing any weight up to and including 1 ounce need not be sold by weight.

**Cottonseed:**—Afghanistan has exempted cottonseed from import duty.

**Danish Imports:**—Paraffin, ceresine, petrolatum, paraffin, liquid petrolatum and crude carbolic acid have been made subject to license by Denmark.

**Grecian Imports:**—Greece has suspended its import quota system. Private imports have been made subject to license.

**Fertilizers:**—Ceylon permits without license imports of phosphate rock and muriate of potash.

**Medicinals:**—British India has made subject to license imports of proprietary medicines containing alcohol.

**Nitric Acid:**—Kedah has made subject to license imports of muriatic and nitric acids.

**Muriatic Acid:**—Federated Malay States has made imports of muriatic acid subject to license.

**Paints:**—Kedah has restricted to license imports of paints ground in oil or water.

**Parcel Post:**—Shanghai Post Office is refusing to accept parcel post for delivery to West China over the Burma road.

**Printing Inks:**—Federated Malay States prohibits the importation of printing inks.

**Sal Ammoniac:**—Egypt has included sal ammoniac in the list of commodities for which maximum prices have been fixed to prevent profiteering.

**Tannin, Powdered:**—Uruguay has subjected imports of powdered tannin to an import duty of 25 percent, plus a surtax of 21 percent, of a fixed customs valuation of 1.40 peso per kilo.

# Coastwise Shipments

## Los Angeles Coast Trade

GASOLINE—9,724 bbls, San Diego; 46,913 bbls, Seattle; 52,098 bbls, Point Wells; 17,022 bbls, Oleum; 57,612 bbls, Seattle; 2,893 bbls, San Diego; 1,807 bbls, San Diego; 1,129 bbls, San Diego; 5,792 bbls, Seattle; 14,933 bbls, Seattle; 25,306 bbls, Seattle; 7,207 bbls, Portland; 60,697 bbls, Seattle; 17,880 bbls, Richmond; 19,298 bbls, Richmond; 2,088 bbls, San Diego; 3,509 bbls, San Diego; 76,300 bbls, Martinez
OIL, DIESEL—6,588 bbls, San Diego; 16,200 bbls, Seattle; 9,486 bbls, Port San Luis; 2,173 bbls, Oleum; 18,421 bbls, Seattle; 9,132 bbls, Seattle; 31,373 bbls, Avon; 20,181 bbls, Seattle; 1,460 bbls, San Diego
FUEL—8,038 bbls, San Diego; 35,444 bbls, Oleum; 102,179 bbls, Richmond; 2,340 bbls, Portland; 60,655 bbls, Portland; 66,833 bbls, Seattle; 72,394 bbls, Richmond; 48,351 bbls, Seattle; 102,814 bbls, Richmond; 44,170 bbls, Portland
FURNACE—527 bbls, San Diego; 7,799 bbls, Seattle; 5,514 bbls, Seattle; 1,885 bbls, Seattle

# Industrial Uses of Chemicals and Related Materials

**(Formerly Styled "Where You Can Sell")**

## Producers' Guide to New Markets Technical Information for Processors

**Fully protected by copyright**

**Seven-hundred-twenty-fifth Recapitulative Instalment**

**(Parenthetical references are to the numbers of patents in the United States or other countries, as designated)**

### 1-Betahydroxyethylthiolbenzothiazole

**Insecticide**

Toxic agent (Brit. 500197) in—
Emulsified insecticidal compositions

### Carbamylmethylbenzylpiperidinium Chloride

**Textile**

Claimed (Brit. 497485) as—
Textile assistant

### Cetyldimethylsulphonium Methosulphate

**Glass**

Deposition promoter (Brit. 497793) in coating—
Glass with rubber latex

**Miscellaneous**

Deposition promoter (Brit. 497793) in coating—
Asbestos and kindred fibrous materials with rubber latex
Negatively charged surfaces with rubber latex (operates by imparting a positive charge to the rubber globules)

**Textile**

Deposition promoter (Brit. 497793) in coating—
Fibers with rubber latex (also claimed that the latex may be colored and may contain wax, oil, fat, or the like to impart water-repellent properties to the textiles)

### Diethyleneglycol Monomethylether

**(Aethylenglykolmonomethyläther, Ether de Diethylene Glycole Monomethylique, Methyl Carbitol, Monomethyl Ether of Diethyleneglycol)**

**Adhesives**

Solvent in—
Adhesive compositions containing nitrocellulose, resins, or gums

**Ceramic**

Solvent in—
Compositions, containing cellulose acetate, nitrocellulose, resins, or gums, used as coatings for protecting and decorating ceramic products

**Cellulose Products**

Ingredient of—
Solvent mixtures for cellulose acetate or nitrocellulose

Solvent for—
Cellulose acetate
Nitrocellulose

**Chemical**

Organic chemical offering the following properties—
Acidity, not more than 0.01 percent (as acetic)
Completely miscible with most organic solvents and water
Hygroscopic
Lowest boiling of the ethers of diethyleneglycol
Mild, nonresidual, agreeable odor
Resembles carbitol in general solvent properties
Stable
Water-white liquid

Partial solvent for—
Hydrocarbons Kauri gum

Solvent for—
Cellulose acetate Shellac
Ester gum Vinylite AYAF
Nitrocellulose Waxes
Rosin

Starting point in making—
Derivatives, such as methyl carbitol acetate

**Cosmetic**

Solvent in—
Nail enamels and lacquers containing nitrocellulose as base material

**Dye**

Solvent for—
Dyestuffs

**Electrical**

Solvent in—
Insulating compositions, containing cellulose acetate, nitrocellulose, resins, or gums, used for covering wire and in making electrical machinery and equipment

**Glass**

Solvent in—
Compositions, containing nitrocellulose, used in the manufacture of nonscatterable glass and as coatings for protecting and decorating glassware

**Ink**

High-boiling solvent in—
Printing inks

**Leather**

Solvent in—
Compositions, containing cellulose acetate, nitrocellulose, resins, or gums, used in the manufacture of artificial leathers and as coatings for protecting and decorating leathers and leather goods

**Metal Fabrication**

Solvent in—
Coating compositions, containing cellulose acetate, nitrocellulose, resins, or gums, used for protecting and decorating metallic articles

**Miscellaneous**

Solvent in—
Coating compositions, containing cellulose acetate, nitrocellulose, resins, or gums, used for protecting and decorating products of various kinds
Wax preparations of various kinds

**Paint and Varnish**

Solvent for—
Cellulose acetate Shellac
Ester gum Vinylite AYAF
Nitrocellulose Waxes
Rosin

Solvent in—
Paints, varnishes, lacquers, enamels, nonaqueous wood stains, and dopes containing cellulose acetate, nitrocellulose, gums, oils, and resins

Solvent miscible with most common solvents

**Paper**

Solvent in—
Compositions, containing cellulose acetate, nitrocellulose, resins, or gums, used in the manufacture of coated papers and as coatings for protecting and decorating articles made of paper or pulp

**Photographic**

Solvent in making—
Films from nitrocellulose

**Plastics**

Solvent in making—
Laminated fiber products
Molded products
Plastics from nitrocellulose, resins, and other materials

**Resins**

Solvent for—
Resin-cellulose derivative compositions and solutions
Vinylite AYAF

**Rubber**

Solvent in—
Compositions, containing cellulose acetate, nitrocellulose, resins, or gums, used as coatings for decorating and protecting rubber goods

**Stone**

Solvent in—
Coating compositions, containing cellulose acetate, nitrocellulose, resins, or gums, used for decorating and protecting artificial and natural stone

**Textile**

Solvent for dyestuffs in—
Dyeing processes
Printing processes

Solvent in—
Compositions containing cellulose acetate, nitrocellulose, resins, or gums, used in the manufacture of coated fabrics

**Wood**

Solvent in—
Compositions, containing cellulose acetate, nitrocellulose, resins, or gums, used as protective and decorative coatings on woodwork
Plastic compositions, containing nitrocellulose or resins, used for many filling and repairing purposes on wood

### Tricalcium Phosphate

*(Continued from November 25 issue)*

**Cosmetic**

Base for—
Beauty creams
Face creams

**Dental**

Ingredient (U.S. 1408960) of—
Dental cement

**Fats and Oils**

Adsorbent in refining—
Vegetable oils

**Food**

Conditioner and anticaking agent for—
Salt

Ingredient of—
Coffee substitute (U.S. 1486792)
Treacle (U.S. 1319151)

Leavening agent in—
Baking powder (U.S. 1274334 and 1427979)
Bread dough (U.S. 1191047 and 1539701)

Mineral supplement in various foods

Process material (U.S. 1449111, 1464710, and Re-15716) in making—
Yeast

**Glass**

Ingredient of batches used in making—
Milk glass
Milk glass (special) (U.S. 1314831)

**Insecticide**

Adsorbent (U.S. 1347798) in—
Insecticide

**Mechanical**

Ingredient of—
Boiler scale removing compound (U.S. 1462550)
Heat insulating material (U.S. 1435416)

**Metallurgical**

Ingredient of—
Iron and steel cleaner (U.S. 1268237)
Rust remover (U.S. 1439780)

Process material in—
Cleaning iron and steel (U.S. 1221441 and 1221442)
Pickling iron and steel (U.S. 1279101 and 1279331)
Rustproofing iron and steel (U.S. 1221441, 1221442, 1279101, and 1279331)

Process material in making—
Copper phosphide coatings (U.S. 1456252)
Copper-phosphorus alloys (U.S. 1168495 and 1265150)
Ferrophosphorus (U.S. 1168495, 1216306, 1220416, 1264236, 1265076, 1265149, and 1492712)
Iron phosphide coatings (U.S.1456252)
Nickel (U.S. 1168495)

**Miscellaneous**

Adsorbent in purification of—
Air Gases

Conditioner and anticaking agent for—
Salt Soda

Ingredient of—
Bacteria compost (U.S. 1320701)
Composition for doll (U.S. 1199251)
Filtering medium (U.S. 1496229)
Polishing powders

Process material in—
Purification of gas (U.S. 1269795 and 1409295)

Process material in making—
Casein compounds (U.S. 1381295)
Milk serum powder (U.S. 1246858)
Milk substitute (U.S. 1273145)

**Oral Hygiene**

Agent (U.S. 1516140) in—
Treating pyorrhea

Ingredient (U.S. 1133250, 1222144, 1225362, 1386252, 1445351, 1445352, 1470794, 1477177, 1516206, 1516398, and Re-15691) of—
Dentifrices

Polishing agent in—
Toothpastes and powders

**Paint and Varnish**

Ingredient of—
Boneblack (U.S. 1518289)
Boneblack substitute (U.S. 1496229)
Rust-preventing paint for iron (U.S. 1367597)

Process material (U.S. 1412027 and 1429841) in making—
Titanium pigment

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Mineral supplement
Pill-dusting agent

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Process material (U.S. 1199251) in making—
Plastic composition

**Refractory**

Process material (U.S. 1420284) in making—
Rafractory composition

**Rubber**

Filler in—
Rubber batches

**Sugar**

Anticaking agent for—
Sugar

Clarifying agent for—
Syrups

Conditioner for—
Sugar

Process material in—
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Purifying glucose (U.S. 1314203 and 1511472)
Purifying molasses (U.S. 1319151)
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Congregational Church, Los Angeles.

"Strangling Our Defenses with Administrative Rules," James A. Emery, N.A.M. general counsel.

"Public Relations," Colby M. Chester, chairman of committee on industrial information.

"Our Stake in Europe's Wars," Robert E. Wood, chairman, Sears, Roebuck & Co.

"Postwar Adjustments," J. Howard Pew, president, Sun Oil Company, Philadelphia.

"Postwar Probabilities," Wythe Williams, analyst of foreign affairs.

"Another Postwar Depression?", Malcolm Muir, chairman of committee on study of depressions.

"Progress After Peace," Charles Kettering, vice-president, General Motors Corporation.

"Promises of the Future," Dr. Karl Compton, president, Massachusetts Institute of Technology.

At the annual dinner December 13, William S. Knudsen, industrial representative on the Advisory Commission to the Council of National Defense, will tell about the need for advice in all directions. Dr. Will Durant, author and philosopher, also will speak.

**John Lucas & Co.,** paint manufacturer, Philadelphia, is distributing a special edition of *Lucas Leader*, in which is detailed an account of the company's sales convention held November 13-15.

**Cary R. Wagner,** chief chemist for the Pure Oil Company, will discuss increasing the production of neutral lubricating oils from Pennsylvania stocks at the meeting of the department of manufacture of the National Petroleum Association December 11 at Bradford, Pa.; December 12 at Oil City, Pa., and December 13 at Butler, Pa.

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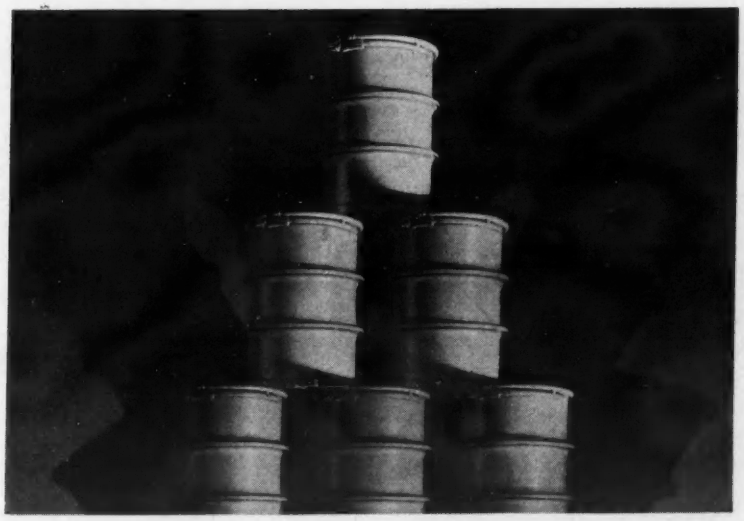

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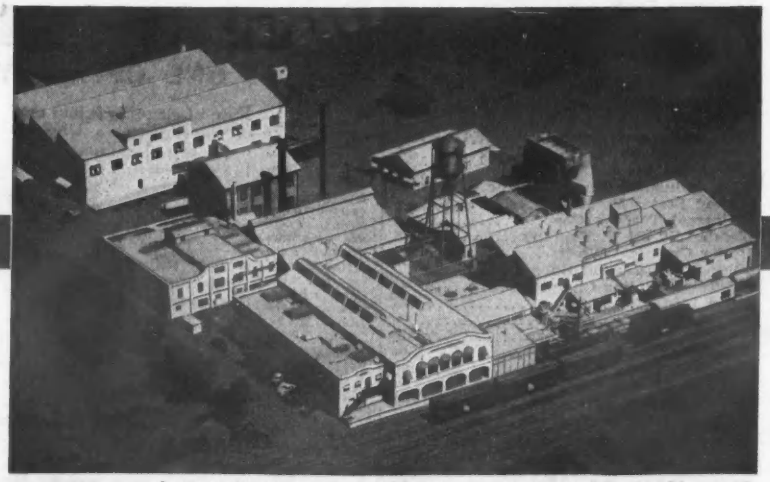

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